MAHLE

Driven by performance

2015/2016

Válvulas, Guias e Sede de Válvulas
Valves, Guides and Valve Seats
Válvulas, Guías y Asientos de Válvulas

AFTERMARKET

METAL LEVE®

MAHLE® ORIGINAL

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OS PRODUTOS DA MAHLE POSSUEM CERTIFICAÇÃO COMPULSÓRIA

Catálogos adicionais

Além deste catálogo*, a MAHLE Metal Leve disponibiliza o seguinte material informativo:

- Catálogo de Pistões, Camisas, Kits e Bronzinas;
- Catálogo de Jogos de Anéis;
- Catálogo de Filtros;
- Catálogos de Juntas Linha Pesada e Linha Leve.

Você pode encontrar uma versão mais atualizada de nossos catálogos em nossa página web (www.mahle-aftermarket.com).

OS PRODUTOS DA MAHLE POSSUEM CERTIFICAÇÃO COMPULSÓRIA
Os produtos MAHLE que possuem certificação compulsória do INMETRO, de acordo com as portarias 301/11, 275/12, 16/13 e 29/15, são: pistões de liga leve de alumínio (Ciclo Otto e Diesel), pinos de pistão, anéis de pistão, bronzinas planas, bronzinas com flange, buchas e arruelas de encosto. A MAHLE coloca dois canais de contato exclusivos à disposição de seus parceiros que desejam saber mais sobre a Certificação Compulsória para Componentes Automotivos: acesse www.certificacaomahle.com.br ou envie sua mensagem para duvidas.certificacao@br.mahle.com.

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A perfeição é a precisão nos detalhes

Nossa especialidade está no motor de combustão interna e nos periféricos. Por exemplo, na Fórmula 1, os kits equipados com componentes MAHLE ganham uma corrida seguida da outra. Obviamente, isto também se aplica ao mercado de equipamento original da indústria automotiva internacional e, consequentemente, ao mercado de reposição – porque o que é preferido no mercado de equipamento original também é a primeira opção para reparos e recondicionamentos. Aproximadamente 4.500 engenheiros de pesquisa e desenvolvimento em nossos centros, em Stuttgart (Bad Cannstatt e Feuerbach), Northampton, Detroit (Farmington Hills e Troy), Jundiaí, Tóquio (Kawagoe e Okegawa), Pune e Shangai, trabalham duro para manter esse alto nível de inovação e qualidade, e sua melhoria contínua. A MAHLE conta com cerca de 66 mil empregados, que produzem sistemas de pistão, componentes de cilindro, trens de válvula e sistemas de gerenciamento do ar e dos líquidos para a indústria automotiva internacional e, com a mesma inegável qualidade, para o mercado de componentes, atividades apoiadas pela empresa por uma gama de produtos orientados pela demanda do mercado, além de uma grande disponibilidade de entrega e serviços completos.

As melhores referências — no mundo inteiro

Estes clientes de equipamento original confiam na MAHLE, em todo o mundo:

Alfa Romeo, Audi, BMW, Case, Caterpillar, Chevrolet, Citroën, CNHTC, Cummins, Dacia, DAF, Daihatsu, Detroit Diesel, Deutz, Dongfeng, Ducati, Ferrari, Fiat, Ford, Freightliner, General Motors, Harley Davidson, Honda, Hyundai, Isuzu, Iveco, Jaguar, John Deere, Kia, Komatsu, Lancia, Land Rover, Mack Trucks, Magna Steyr, MAN, Maserati, Mazda, Mercedes-Benz, Mitsubishi, MWM International, Navistar International, New Holland, Nissan, Opel, Paccar, Perkins, Peugeot, Porsche, Renault, Renault Trucks, Saab, Scania, Seat, Skoda, Smart, Steyr, Stihl, Subaru, Suzuki, Toyota, Vauxhall, Volkswagen, Volvo, Yamaha.

Tipos e termos técnicos

Válvulas monometálicas

São produzidas eficientemente por processo de extrusão a quente ou por estampagem.

Válvulas bimetálicas

Tornam possível o uso da combinação ideal de materiais tanto na haste como na cabeça.

Válvulas ocas

Servem de um lado para reduzir o peso e, de outro, a temperatura. Preenchidas com sódio (ponto de fusão a 97,5°C), o efeito do movimento do sódio líquido faz com que o calor possa se deslocar da cabeça da válvula à sua haste, conseguindo assim uma redução da temperatura de 80°C a 150°C.

Materiais

CS = Aço baixo carbono para válvulas de admissão, também utilizado como material da haste em válvulas bimetálicas

M = Aço cromo cilício para válvulas de admissão e de escape em serviços moderados, também utilizado na haste, em válvulas bimetálicas

MN = Aço cromo silício níquel para válvulas de admissão com grande resistência à corrosão e às altas temperaturass

MV = Aço cromo molibdênio vanádio para válvulas de admissão com alta resistência ao desgaste, à corrosão e às altas temperaturas

A = Aço austenítico cromo níquel manganês para válvulas de escape resistentes a severas condições de operação

AN = Aço austenítico cromo níquel para válvulas de escape resistentes a severas condições de operação

AB = Aço austenítico cromo níquel manganês para válvulas de escape resistentes a severas condições de operação

X = Superligas para válvulas de escape altamente solicitadas

ST = Altas ligas para blindagem da sede de válvula com alta resistência à oxidação, ao desgaste e à corrosão

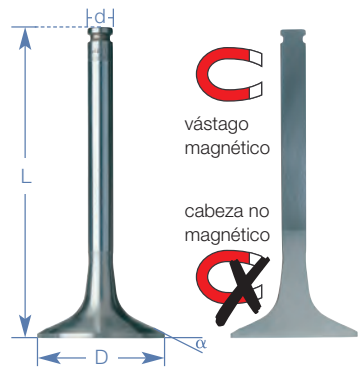
SH = Válvula com sede temperada

N = Válvula nitretada

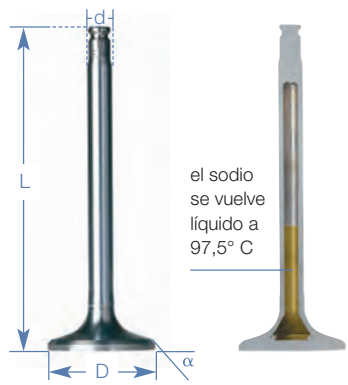
CP = Válvula com haste cromada

Válvulas monometálicas

Válvulas bimetálicas



Válvula hueca rellena de sodio



Função

Válvulas são autopeças de alta precisão que precisam executar quatro tarefas importantes no motor:

- vedar as áreas de fluxo;
- controlar a troca de gases;
- selar os cilindros do exterior;
- dissipar o calor absorvido dos gases de escape da combustão, transferindo-o para o anel de assento de válvula e para a guia de válvula.

Trabalhando a temperaturas acima de 800°C, cada válvula abre e fecha até 70 vezes por segundo e durante a vida do motor está sujeita a uma média de 300 milhões de alternâncias de carga.

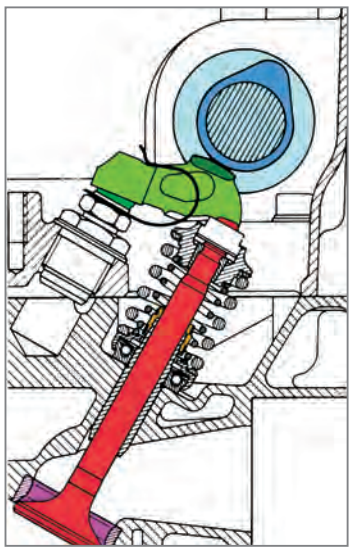
Existe uma diferença genérica entre válvulas de admissão e de escape:

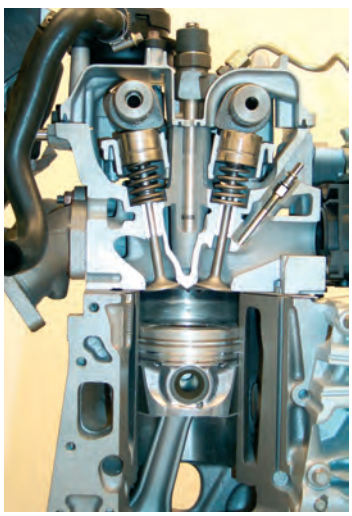
Válvulas de admissão

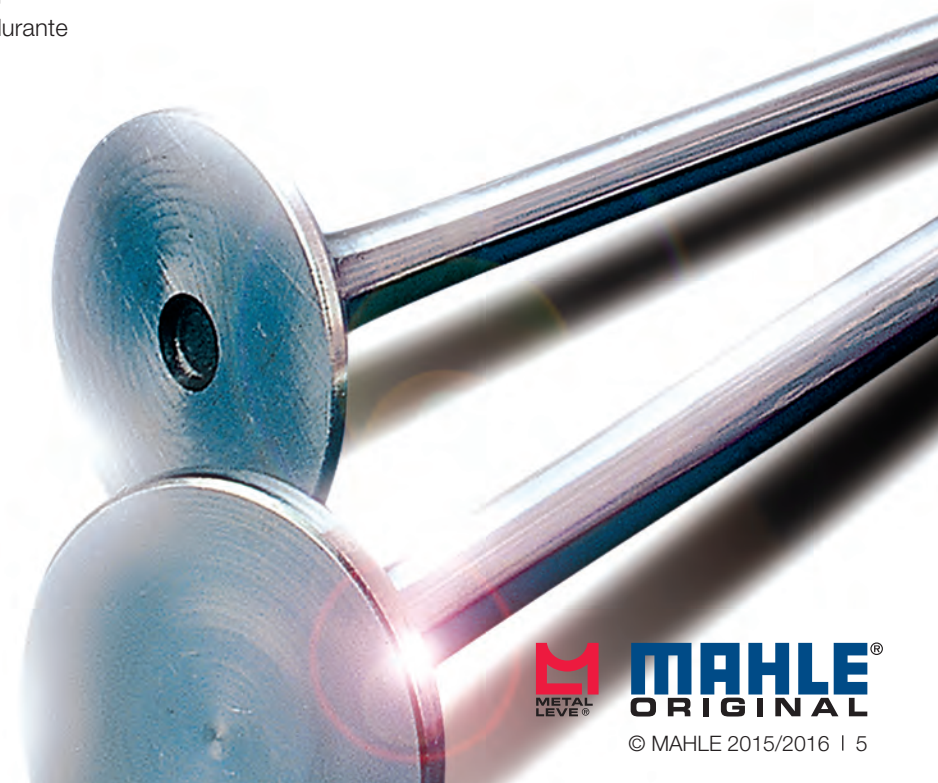
As válvulas de admissão – que são refrigeradas pelos gases não queimados – necessitam resistir a tensões mecânicas elevadas, especialmente em seu contato com o assento de válvula.

Válvulas de escape

Além das grandes demandas mecânicas a que estão submetidas, as válvulas de escape também têm que suportar altas tensões térmicas e corrosão química. Por isso, elas requerem materiais especiais e processos de produção mais complexos durante a sua fabricação.







Recomendações de montagem

As válvulas são componentes de motores sujeitos às maiores tensões térmicas e mecânicas. Sua vida útil – e, por consequência, a vida útil do motor – dependem grandemente de sua instalação correta.

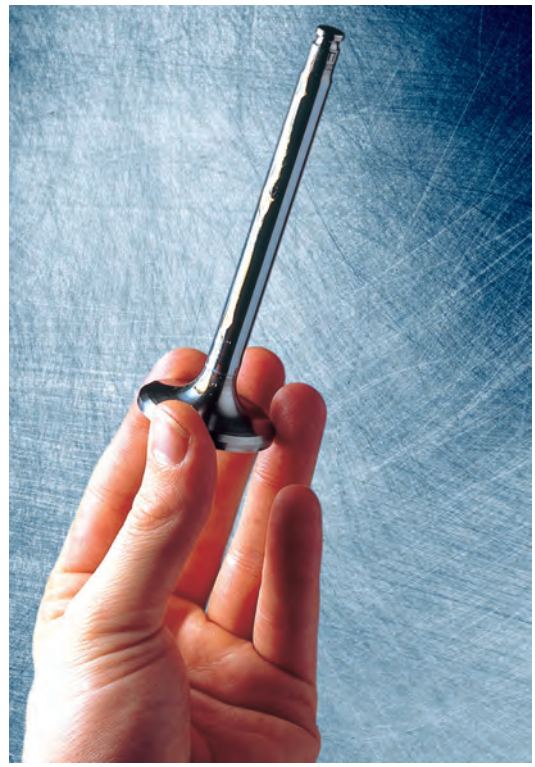
As válvulas MAHLE Original e Metal Leve são fornecidas em embalagem individual, prontas para ser instaladas.

Verifique as válvulas antes de instalá-las a fim de se certificar de que não foram danificadas (por exemplo, se não sofreram impactos, etc.). Nunca instale válvulas danificadas ou tortas. Tenha a certeza de estar usando as válvulas corretas para o seu motor.

Válvulas MAHLE Original e Metal Leve somente deverão ser usadas nas aplicações para as quais foram projetadas. Em nenhuma circunstância, elas deverão ser trabalhadas ou modificadas mecanicamente.

As informações e instruções de instalação do fabricante do motor devem ser observadas em todos os casos.

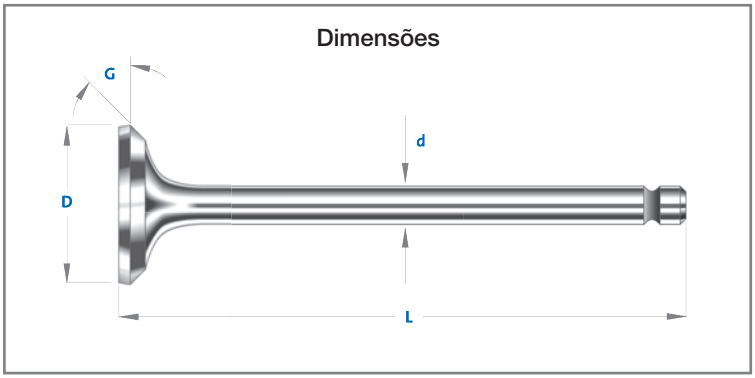
Antes de instalar a válvula, verifique o interior da cabeça da mola de válvula para ver se ela está gasta ou danificada. Observe também se a força da mola de válvula está dentro dos valores prescritos pelo fabricante do motor.



Assegure-se de usar novos clipes e selos de haste de válvula quando instalar a válvula.

A haste de válvula deve ser lubrificada adequadamente com óleo limpo de motor antes da sua inserção.

Dimensões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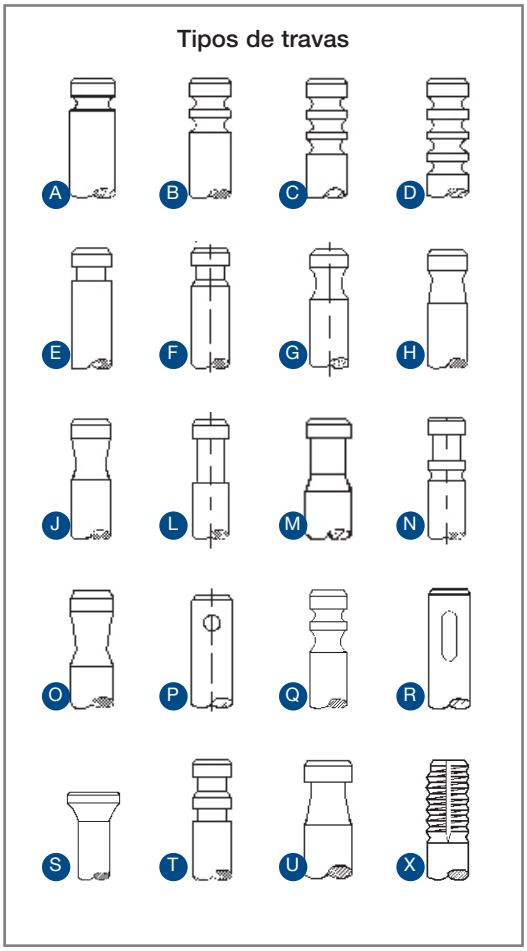
Tipos de travas
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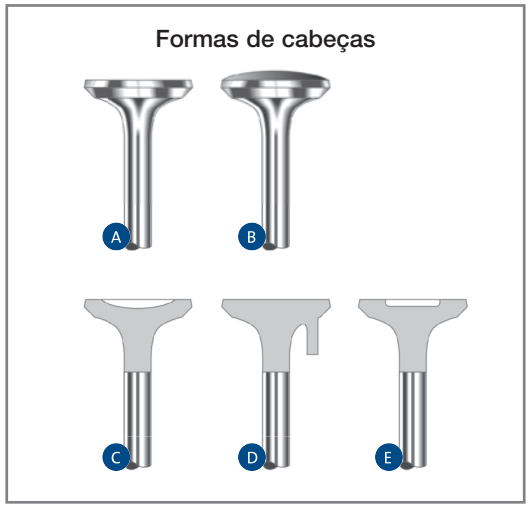
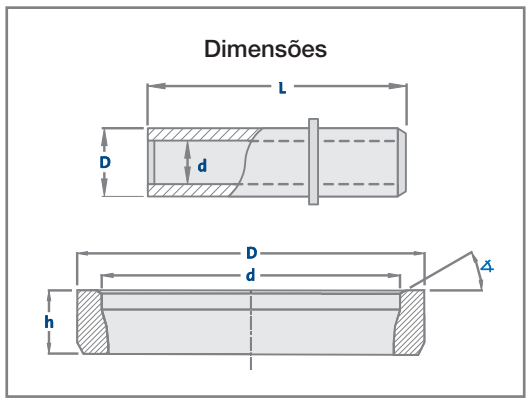

Formas de cabeças
A
B
C
D
E


Dimensões
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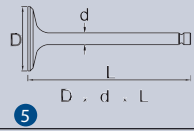
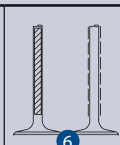
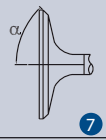
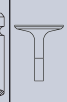
Estrutura da página e decodificação dos códigos das peças

1 FIAT

MAHLE

2		Nº CIL. 3	TIPO TYPE 4	 5	 6	 7	8	 9	10
127,147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300) - GNC		4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
			EX	33.13 x 7.98 x 108.95	A/CP/ST	Stellit 44°30'	A	A	**VE0250059**
128, 147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300) - Nafta / GNC		4	EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
			IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
128, Motor 1500cc.		4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
147, UNO, PREMIO, ELBA, MILLE - 1000/1050/1300		4	IN	34.03 x 7.97 x 110.15	A/M/CP	44°30'	A	A	**VA0250002**
147, Uno, Premio, Elba, Mille, Brio Motor 1000-1050-1300-1500cc.		4	IN	34.03 x 7.97 x 110.15	A/M/CP	44°30'	A	A	**VA0250002**
			EX	28.98 x 7.98 x 110.60	A/CP	44°30'	A	A	**VE0250001**
147, Uno, Spazio, Vivace, Duna Motor Tipo 1400-1600cc. 1378N (Nafta / GNC)		4	EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
Brava, Bravo, Marea 2000cc. 20v.		4	IN	30.05 x 6.98 x 113.15	A/M/CP	45°30'	D	A	**VA0250160**
			EX	26.10 x 6.97 x 108.58	A/CP/M/ST	45°30'	D	A	**VE0250161**
Bravo, Palio, Siena, Marea Motor 1580cc. 16v. injeção (Nafta / GNC)		4	IN	30.40 x 6.99 x 102.50	M/CP	44°30'	A	C	**VA0250165**
			EX	29.90 x 6.99 x 102.35	A/CP/ST	45°30'	A	C	**VE0250164**
Duna, Uno, Fiorino, 1.3 MPI - Nuevo Palio 1.3 MPI 8v.		4	IN	36.45 x 7.98 x 110.20	M/CP	45°	A	A	**VA0250018**
Fire 16v. 1.0l. Palio - 1.3lts. 80CV Dobló, Dobló Cargo - GNC		4	IN	26.90 x 5.99 x 95.20	M/CP/SH	44°30'	C	C	**VA0250166**
Fire 16v. Palio 1000cc.- Palio, Siena, Strada, Dobló, Dobló Cargo 1300cc. 80CV		4	IN	26.90 x 5.99 x 95.20	M/CP/SH	44°30'	C	C	**VA0250166**
			EX	22.40 x 5.98 x 96.18	AB/M/ST	45°	C	A	**VE0250163**
Fire 8v. 65CV-Mille(Uno), Palio, Palio Nuevo, Siena 1.3lts. 67CV, Palio Weekend, Siena, Uno Furgão, Fiorino Furgão, Picape Strada - GNC		4	IN	31.40 x 6.99 x 97.00	M/CP/SH	45°50'	A	C	**VA0250162**
			EX	27.35 x 6.99 x 97.20	A/ST/CP	44°30'	A	A	**VE0250167**
Fire 8v. 65CV-Mille(Uno), Uno Furgão, Fiorino Furgão, Strada, Palio, Palio Weekend, Siena 1300cc.		4	IN	31.40 x 6.99 x 97.00	M/CP/SH	45°50'	A	C	**VA0250162**

1 Fabricante

2 Nome do motor
Dados do motor
Veículos
Ano de fabricação

3 Número de cilindros

4 Função
IN = Admissão
EX = Escape
IN - EX = Comum

5 Dimensões da válvula em mm

6 Materiais da válvula/Revestimento da válvula
Ex.: A/M/ST/CP
- Revestimento
- Material de construção

7 Revestimento do assento de válvula/Ângulo do assento de válvula

8 Identificação da forma da haste da válvula

9 Forma da cabeça

10 Número de artigo da válvula
Ex.: VA0250002
- Número sequencial
- Linha motora

Overview

EN

english

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Additional catalogues

In addition to this catalogue*, the following information material is available from MAHLE Metal Leve:

- Catalogue for Piston, Cylinders, Kits and Bearings
- Catalogue for Piston Ring Sets
- Valves, Guides and Valve Seats Catalogue
- Catalogue for Filters

You can find an updated version of our catalogs on our website (www.mahle-aftermarket.com).

MAHLE'S PRODUCTS HAVE COMPULSORY CERTIFICATION
MAHLE's products with the INMETRO compulsory certification, according to Ordinances 301/11, 275/12, 16/13 and 29/15, include: lightweight aluminum alloy pistons (Otto and Diesel Cycle), piston pins, piston rings, plain bearings, flanged bearings, bushings, and thrust washers. MAHLE provides two unique contact channels for its partners who wish to learn more about the Compulsory Certification for Automotive Components. Please visit www.certificacaomahle.com.br or send your message to duvidas.certificacao@br.mahle.com.

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Perfection is precision in the detail

Our competence is the internal combustion engine and its immediate environment. For example in formula 1, where racing stables equipped with MAHLE components win races again and again. Of course, this applies also to the original equipment market of the international automotive industry and consequently to the aftermarket – because what is preferred in the original equipment market, is also first choice for repair and retrofitting. About 4,500 R&D engineers in our R&D facilities in Stuttgart (Bad Cannstatt y Feuerbach), Northampton, Detroit (Farmington Hills y Troy), Jundiaí, Tóquio (Kawagoe y Okegawa), Pune e Shangai work hard to maintain this high level of innovation and quality and keep improving it.

MAHLE has around 66,000 employees who make piston systems, cylinder components, valve train systems, air management and liquid management systems for the international automotive industry – and in the same uncompromising quality for the component trade, which is supported by us with a demand-oriented product range, high readiness to deliver and comprehensive service.

The best references – worldwide

These original equipment customers trust in MAHLE throughout the world.

Alfa Romeo, Audi, BMW, Case, Caterpillar, Chevrolet, Citroën, CNHTC, Cummins, Dacia, DAF, Daihatsu, Detroit Diesel, Deutz, Dongfeng, Ducati, Ferrari, Fiat, Ford, Freightliner, General Motors, Harley Davidson, Honda, Hyundai, Isuzu, Iveco, Jaguar, John Deere, Kia, Komatsu, Lancia, Land Rover, Mack Trucks, Magna Steyr, MAN, Maserati, Mazda, Mercedes-Benz, Mitsubishi, MWM International, Navistar International, New Holland, Nissan, Opel, Paccar, Perkins, Peugeot, Porsche, Renault, Renault Trucks, Saab, Scania, Seat, Skoda, Smart, Steyr, Stihl, Subaru, Suzuki, Toyota, Vauxhall, Volkswagen, Volvo, Yamaha.

Types and technical terms

Mono-metallic valves

Are produced efficiently in a warm-extruded process or in an upsetting process.

Bi-metallic valves

Make it possible to use the ideal combination of materials both for the shaft and the head.

Hollow valves

Serve on the one hand to reduce weight, and on the other hand to reduce the temperature. Filled with sodium (melting point 97.5° C), the shaker effect of the liquid sodium means that heat can travel from the valve head to the valve shaft and a temperature reduction of between 80° and 150° C can be achieved.

Materials

CS = Low alloy carbon steel alloys for intake valves also used as stem materials in bi--metallic valves

M = High alloyed chrome-silicon steel for intake and exhaust valves in medium services, also used as stem material in bi-metallic valves

MN = High alloyed chrome-silicon-nickel steel for intake valves with strong resistance against corrosion and high temperatures

MV = High alloyed chrome-molybdenum-vanadium steel for intake valves with strong resistance against wear, corrosion and high temperatures

A = Austenitic chromium-manganese-nickel steel for exhaust valves resistant to severe operating conditions

AN = Austenitic chromium-nickel steel for exhaust valves resistant to severe operating conditions

AB = Austenitic chromium-manganese-nickel steel for exhaust valves resistant to severe operating conditions

X = Super alloys for exhaust valve application in extreme conditions

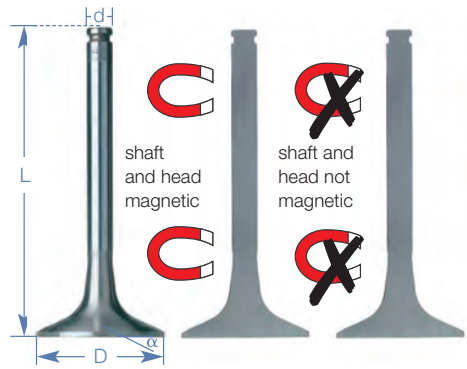
ST = High alloys for facing on the valve seat with high resistance to oxidation, wear and corrosion

SH = Seat hardening

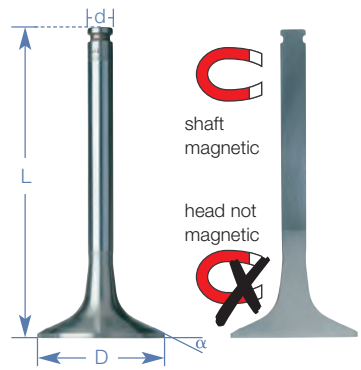
N = Nitriding

CP = Chrome plating

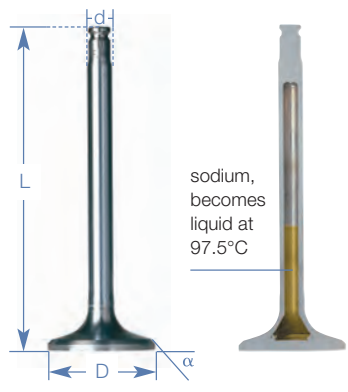
Mono-metallic valve



Válvulas bimetálicas



Sodium-filled hollow valve



Function

Valves are precision engine parts and they have to perform four important tasks in the operation of the engine:

- Blocking flow areas
- Controlling gas exchange
- Sealing the cylinders to the outside
- Dissipating the heat absorbed by the exhaust ases from combustion to the valve seat ring and to the valve guide.

At temperatures of up to 800° C, each valve opens and closes up to 70 times per second and during the life of the engine it is subjected to an average of 300 million changes of load.

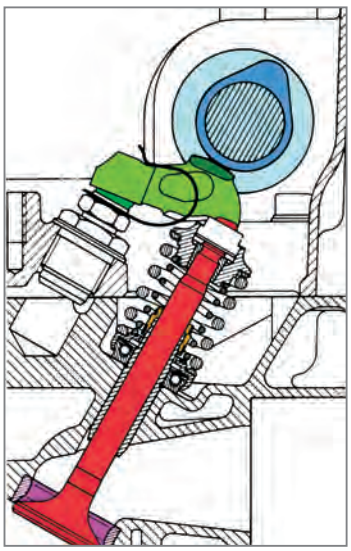
A distinction is generally made between intake valves and exhaust valves.

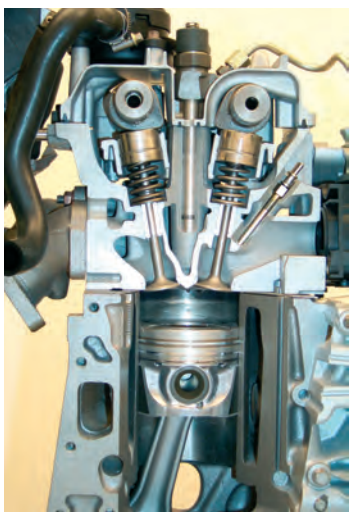
Intake valves

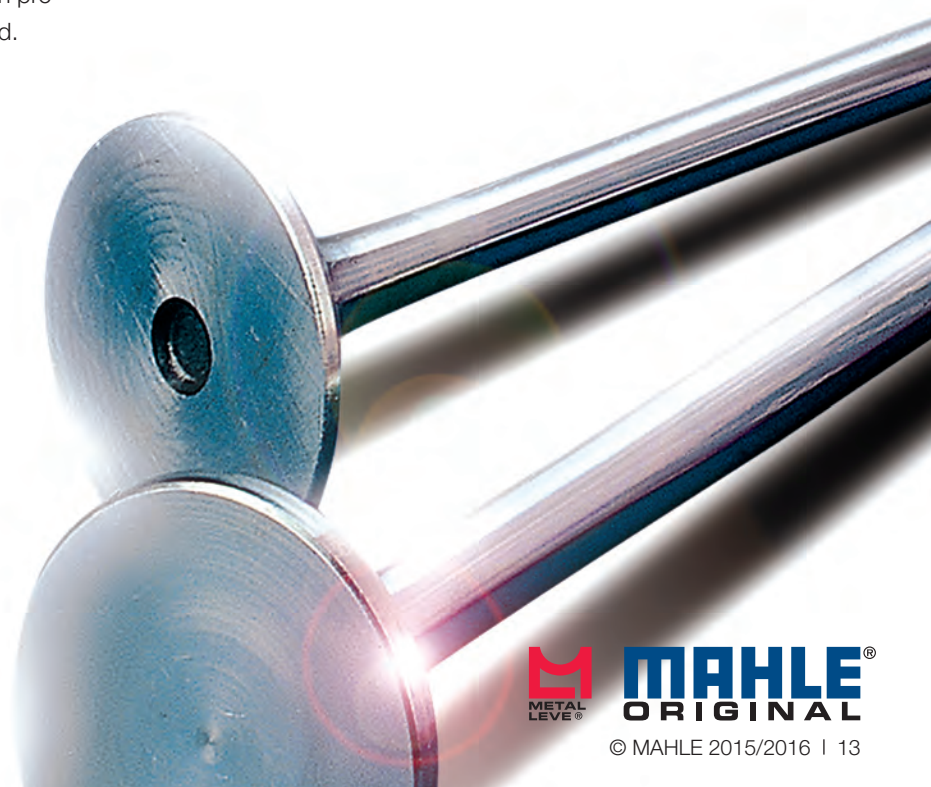
The valves – which are cooled by the circulation of unburnt gases – have to withstand high mechanical loads, especially upon contact with the valve seat.

Exhaust valves

In addition to the great mechanical demands made on them, exhaust valves are subjected to high thermal stresses and chemical corrosion. Therefore, other materials and more complex production processes are used when they are manufactured.







Fitting recommendations

Valves are some of the components in the engine that are subjected to the greatest thermal and mechanical stresses. Their working life – and thus the working life of the engine – is strongly dependent on their being installed correctly.

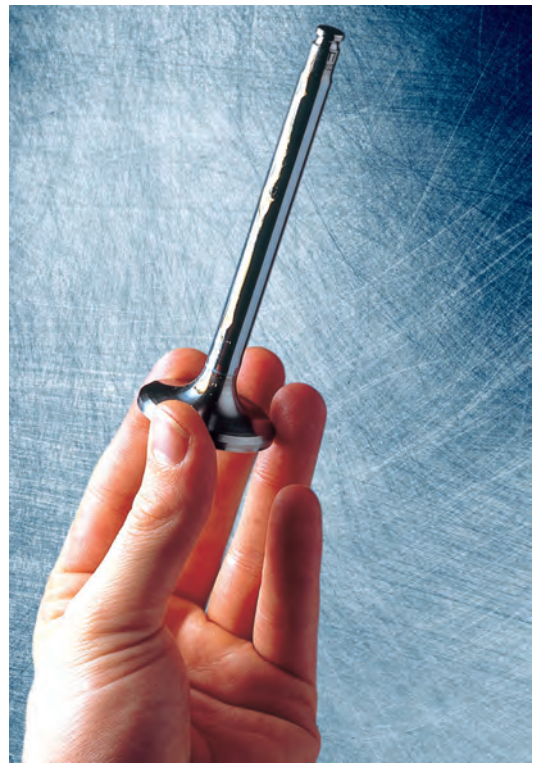
MAHLE Original and Metal Leve valves are supplied ready for installation and individually packed.

Check the valves before installation to see if they have been damaged (for example, if they have been knocked etc.). Never install damaged or bent valves. Make sure that the valves are the right size for your engine.

MAHLE Original and Metal Leve valves are only to be used in the application for which they were designed; under no circumstances may they be mechani cally processed or changed.

Information and installation guidelines from the engine manufacturer must be observed in all cases.

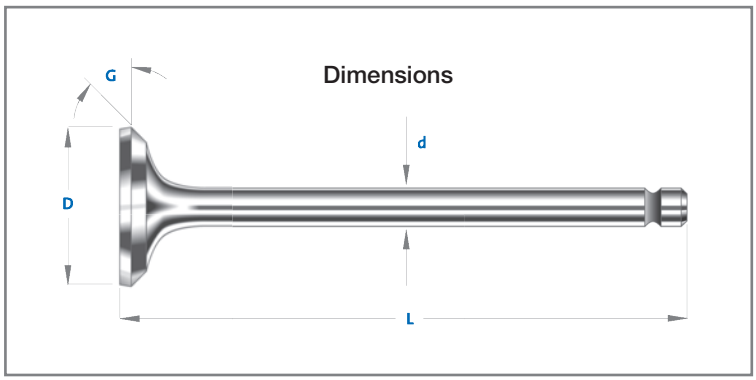
Before installing the valve, check the inner core of the valve spring head to see if it is worn or damaged. Check also whether the valve spring power is still within the values prescribed by the engine manufacturer.



Be sure to use new valve collets and valve shaft seals when installing the valve.

The valve shaft must be lubricated sufficiently with clean engine oil before it is inserted.

Dimensions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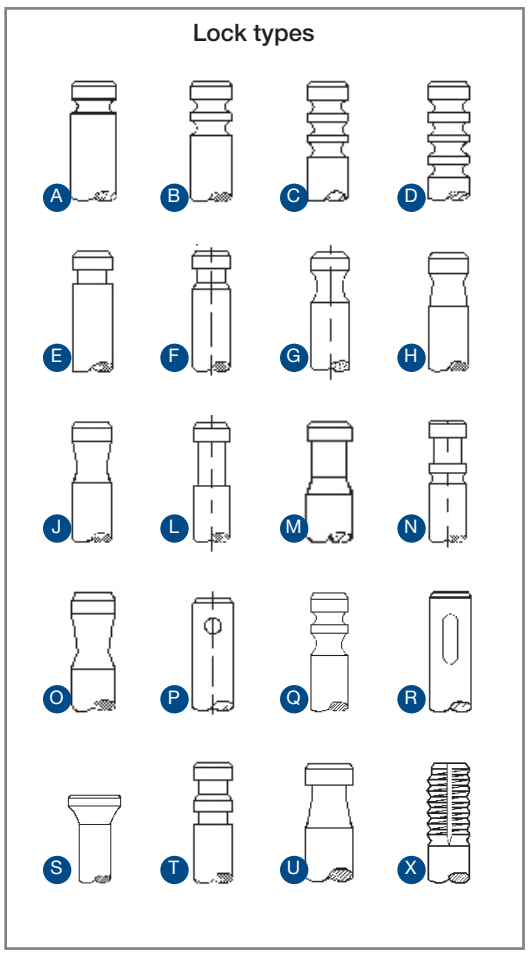
Lock types
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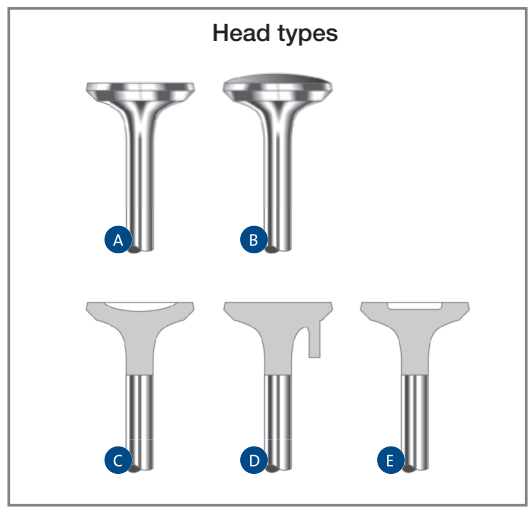
Head types
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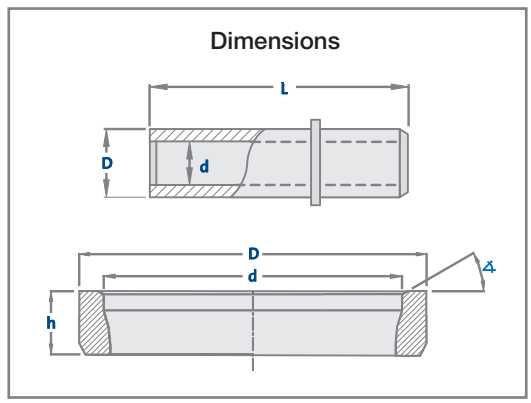
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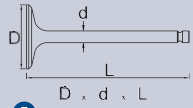
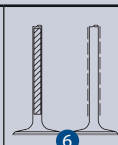
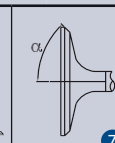
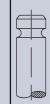
Page structure and decoding of part numbers

1 FIAT

MAHLE

	N° CIL. 3	TIPO TYPE 4	 D x d x L 5	 6	 7	 8	9	10
2 127,147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300) - GNC	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
		EX	33.13 x 7.98 x 108.95	A/CP/ST	Stellit 44°30'	A	A	**VE0250059**
128, 147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300) - Nafta / GNC	4	EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
		IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
128, Motor 1500cc.	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
147, UNO, PREMIO, ELBA, MILLE - 1000/1050/1300	4	IN	34.03 x 7.97 x 110.15	A/M/CP	44°30'	A	A	**VA0250002**
147, Uno, Premio, Elba, Mille, Brio Motor 1000-1050-1300-1500cc.	4	IN	34.03 x 7.97 x 110.15	A/M/CP	44°30'	A	A	**VA0250002**
		EX	28.98 x 7.98 x 110.60	A/CP	44°30'	A	A	**VE0250001**
147, Uno, Spazio, Vivace, Duna Motor Tipo 1400-1600cc. 1378N (Nafta / GNC)	4	EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
Brava, Bravo, Marea 2000cc. 20v.	4	IN	30.05 x 6.98 x 113.15	A/M/CP	45°30'	D	A	**VA0250160**
		EX	26.10 x 6.97 x 108.58	A/CP/M/ST	45°30'	D	A	**VE0250161**
Bravo, Palio, Siena, Marea Motor 1580cc. 16v. injeção (Nafta / GNC)	4	IN	30.40 x 6.99 x 102.50	M/CP	44°30'	A	C	**VA0250165**
		EX	29.90 x 6.99 x 102.35	A/CP/ST	45°30'	A	C	**VE0250164**
Duna, Uno, Fiorino, 1.3 MPI - Nuevo Palio 1.3 MPI 8v.	4	IN	36.45 x 7.98 x 110.20	M/CP	45°	A	A	**VA0250018**
Fire 16v. 1.0l. Palio - 1.3lts. 80CV Dobló, Dobló Cargo - GNC	4	IN	26.90 x 5.99 x 95.20	M/CP/SH	44°30'	C	C	**VA0250166**
Fire 16v. Palio 1000cc.- Palio, Siena, Strada, Dobló, Dobló Cargo 1300cc. 80CV	4	IN	26.90 x 5.99 x 95.20	M/CP/SH	44°30'	C	C	**VA0250166**
		EX	22.40 x 5.98 x 96.18	AB/M/ST	45°	C	A	**VE0250163**
Fire 8v. 65CV-Mille(Uno), Palio, Palio Nuevo, Siena 1.3lts. 67CV, Palio Weekend, Siena, Uno Furgão, Fiorino Furgão, Picape Strada - GNC	4	IN	31.40 x 6.99 x 97.00	M/CP/SH	45°50'	A	C	**VA0250162**
		EX	27.35 x 6.99 x 97.20	A/ST/CP	44°30'	A	A	**VE0250167**
Fire 8v. 65CV-Mille(Uno), Uno Furgão, Fiorino Furgão, Strada, Palio, Palio Weekend, Siena 1300cc.	4	IN	31.40 x 6.99 x 97.00	M/CP/SH	45°50'	A	C	**VA0250162**

1 Manufacturer
2 Engine name
Engine data
Vehicles
Year of construction
3 Cylinder number
4 Function
IN = Intake
EX = Exhaust
IN - EX = Common
5 Valve dimensions in mm
6 Valve materials/Valve coating
Ex.: A/M/ST/CP
Coating
Material specification

7 Valve seat coating/Valve seat angle
8 Identification of shaft end
9 Head shape
10 Valve article number
Ex.: VA0250002
Sequencial number
Engine manufacturer codification

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LOS PRODUCTOS DE MAHLE TIENEN CERTIFICACIÓN OBLIGATORIA

Catálogos adicionales

Para completar el presente catálogo*, MAHLE Metal Leve también ofrece los seguientes materiales de consulta:

- Catálogo de Pistones, Camisas, Kits y Cojinetes
- Catálogo de Aros
- Catálogo de Filtros
- Catálogo de Juntas

Usted puede encontrar una versión más actualizada de nuestros catálogos en nuestra página web (www.mahle-aftermarket.com).

LOS PRODUCTOS DE MAHLE TIENEN CERTIFICACIÓN OBLIGATORIA
Los productos MAHLE que tienen certificación obligatoria del INMETRO, de acuerdo con las resoluciones 301/11, 275/12, 16/13 y 29/15, son: pistones de aleación liviana de aluminio (Ciclo Otto y Diesel), pernos de pistón, aros de pistón, cojinetes planos, cojinetes con axial, bujes y arandelas de empuje. MAHLE ofrece dos canales de contacto exclusivos a disposición de sus aliados que desean saber más sobre la Certificación Obligatoria para Componentes Automotrices, ingrese a www.certificacaomahle.com.br o envíe su mensaje a duvidas.certificacao@br.mahle.com.

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La perfección es la precisión en el detalle

Nuestro trabajo es el motor de combustión y su entorno inmediato. Por ejemplo en la Fórmula 1, donde los bólidos equipados con componentes MAHLE consiguen una victoria tras otra. Naturalmente estamos presentes también en los primeros equipos de la industria automovilística internacional. Y por ello también en el mercado de reposición: pues lo que se elige para los primeros equipos, se elige también para el reposición. Para mantener este nivel de innovación y de calidad y seguir desarrollándolo, en nuestros centros de investigación y desarrollo en Stuttgart (Bad Cannstatt y Feuerbach), Northampton, Detroit (Farmington Hills y Troy), Jundiaí, Tóquio (Kawagoe y Okegawa), Pune e Shangai, trabajan alrededor de 4.500 ingenieros de desarrollo.

Aproximadamente 66.000 trabajadores producen en MAHLE sistemas de pistones, componentes de cilindro, sistemas de funcionamiento de válvulas, sistemas de distribución de aire y sistemas de distribución de líquidos para la industria automovilística internacional y – con la misma calidad incondicional – para el mercado de piezas de recambio, al que abastecemos con una gama de productos adecuada a las necesidades, una alta tasa de servicio y una gran gama de productos.

Las mejores referencias en todo el mundo

Estos son algunos de nuestros clientes de primer equipo, que confían en MAHLE por todo el mundo:

Alfa Romeo, Audi, BMW, Case, Caterpillar, Chevrolet, Citroën, CNHTC, Cummins, Dacia, DAF, Daihatsu, Detroit Diesel, Deutz, Dongfeng, Ducati, Ferrari, Fiat, Ford, Freightliner, General Motors, Harley Davidson, Honda, Hyundai, Isuzu, Iveco, Jaguar, John Deere, Kia, Komatsu, Lancia, Land Rover, Mack Trucks, Magna Steyr, MAN, Maserati, Mazda, Mercedes-Benz, Mitsubishi, MWM International, Navistar International, New Holland, Nissan, Opel, Paccar, Perkins, Peugeot, Porsche, Renault, Renault Trucks, Saab, Scania, Seat, Skoda, Smart, Steyr, Stihl, Subaru, Suzuki, Toyota, Vauxhall, Volkswagen, Volvo, Yamaha.

Tipos y conceptos técnicos

Válvulas monometálicas

Fabricadas racionalmente mediante proceso de extru sión en caliente o proceso de recalcado.

Válvulas bimetálicas

Hacen posible la combinación ideal de materiales tanto para el vástago como para la cabeza.

Válvulas huecas

Sirven por un lado para la reducción de peso y por otro para la disminución de temperatura. Rellena de sodio (punto de fusión 97,5° C), puede transportar calor desde la cabeza de la válvula hasta el vástago, a través del efecto agitador del sodio líquido, y lograr una disminución de la temperatura entre 80° hasta 150° C.

Materiales

CS = Acero bajo carbono para válvulas de admisión también utilizada como material del vástago en válvulas bimetálicas

M = Acero cromo silicio para válvulas de admisión y de escape en servicios moderados, aún utilizados como material del vástago en válvulas bimetálicas

MN = Acero cromo níquel silicio para válvulas de admisión con gran resistencia a la corrosión y temperaturas elevadas

MV = Acero cromo molibdeno vanadio para válvulas de admisión con alta resistencia al desgaste, corrosión y altas temperaturas

A = Acero austenítico cromo níquel manganeso para válvulas de escape resistentes a pesadas condiciones de operación

AN = Acero austenítico cromo níquel para válvulas de escape resistentes a severas condiciones de operación

AB = Acero austenítico cromo níquel manganeso para válvulas de escape resistentes a pesadas condiciones de operación

X = Super aleaciones para válvulas de escape fuertemente solicitadas

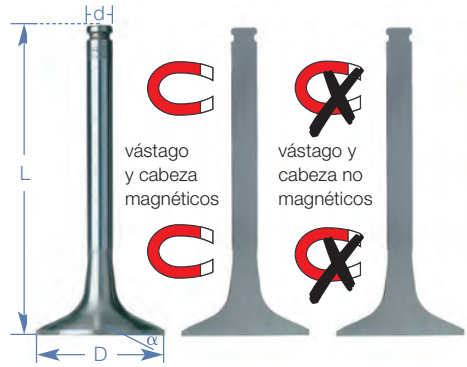
ST = Altas aleaciones de blindaje del asiento de válvulas de alta resistencia a la oxidación, desgaste y corrosión

SH = Válvula con asiento temperado

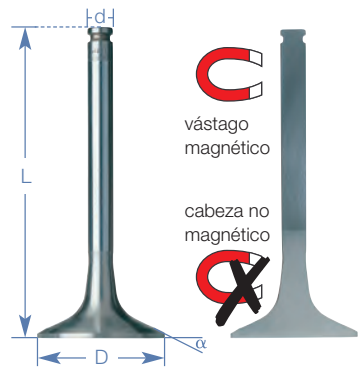
N = Válvula nitretada

CP = Válvula con vástago cromado

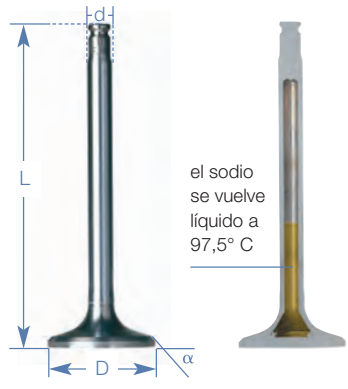
Válvulas monometálicas



Válvulas bimetálicas



Válvula hueca rellena de sodio



Función

Las válvulas son piezas de precisión del motor y cumplen cuatro tareas muy importantes en el funciona miento motriz:

- Bloqueo de secciones del flujo
- Control del intercambio de gases
- Cierre hermético de los cilindros
- Disipación del calor absorbido de los gases de escape de la combustión, transfiriéndolo hacia los insertos de asiento de válvulas y hacia las guías de válvulas.

A temperaturas de hasta 800° Celsius cada válvula se abre y se cierra hasta 70 veces por segundo y durante la vida útil del motor soporta, como término medio, 300 milliones de recambios de la carga.

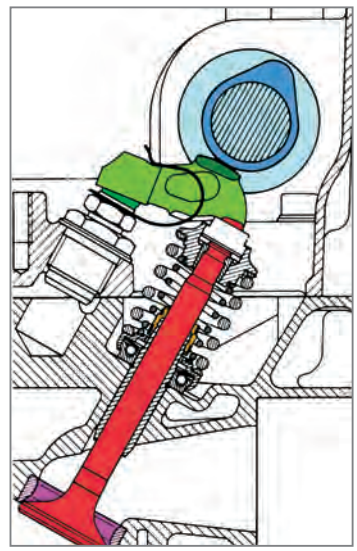
Por lo general se distingue entre válvulas de admisión y de escape.

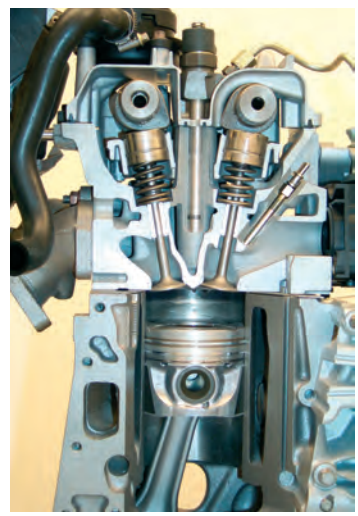
Válvulas de admisión

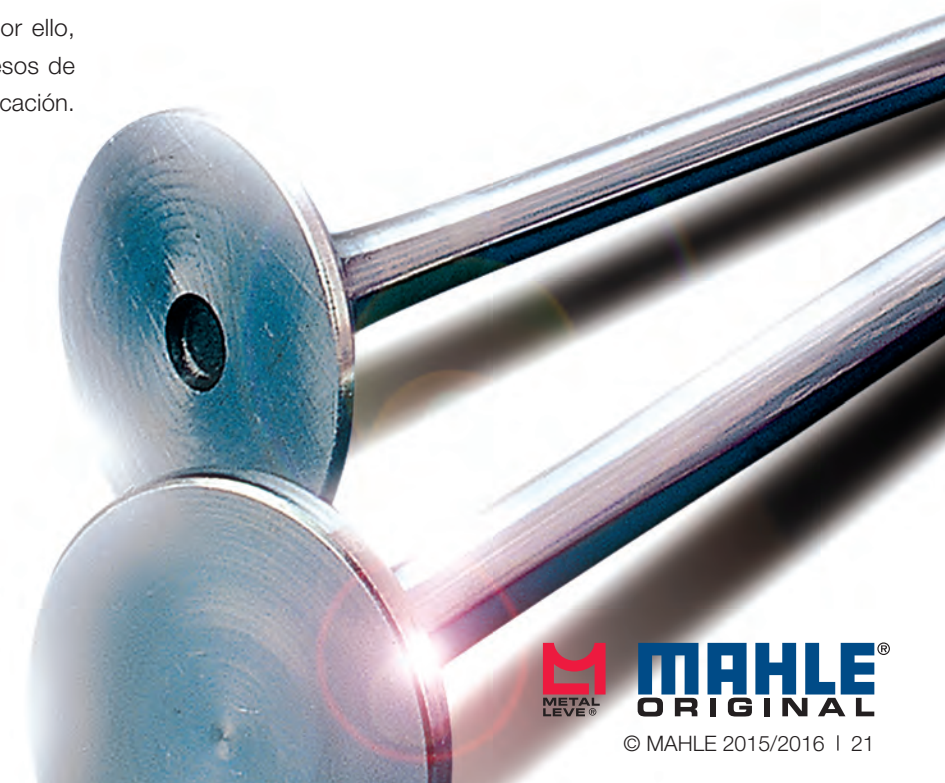
Como consecuencia de la circulación de los gases frescos, las válvulas de admisión enfriadas deben soportar elevadas cargas mecánicas sobre todo en el contacto con el asiento de la válvula.

Válvulas de escape

Adicionalmente a las elevadas solicitaciones, las válvulas de escape están expuestas a elevadas car gas térmicas y corro sión química. Por ello, se emplean materiales especiales y procesos de producción más complejos durante su fabricación.







Recomendaciones de montaje

Las válvulas son componentes de motores, sujetos a las mayores tensiones térmicas y mecánicas. Su vida útil, y por consecuencia la vida útil del motor, depende fundamentalmente de su correcto montaje.

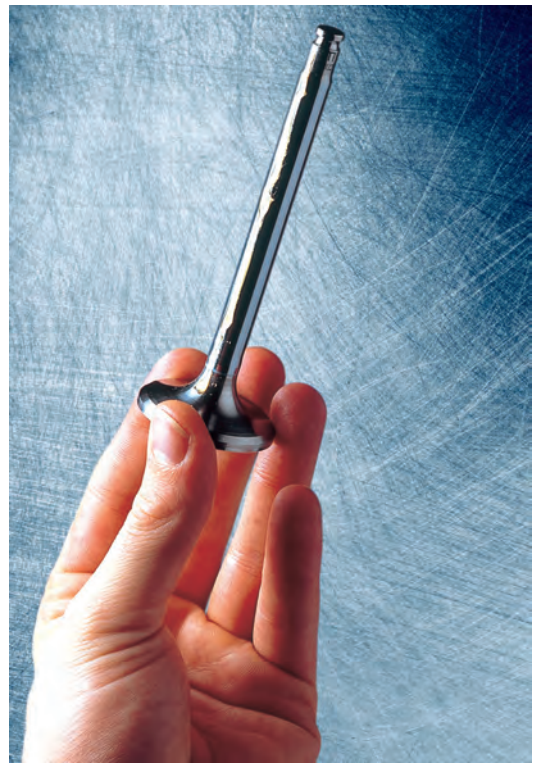
Las válvulas MAHLE Original y se suministran listas para el montaje y envasadas individualmente.

Antes del montaje, compruebe si existen eventuales daños en las válvulas (Ej.: por caída, etc.). Nunca lleve a cabo el montaje de válvulas dañadas o torcidas. Asegúrese de que las válvulas son las apropiadas para su motor.

Las válvulas MAHLE Original y solamente deben ser usadas en las aplicaciones para las cuales han sido deseñadas. No está permitido en ningún caso su adaptación o modificación.

Deben ser observados, en todos los casos, los datos e instrucciones de montaje del fabricante del motor.

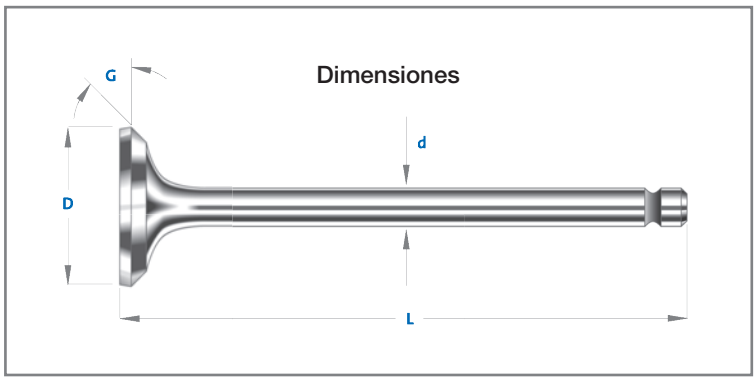
Antes del montaje de la válvula compruebe que no existe desgaste o daños en el cono interior de la tapa del resorte de la válvula. Asimismo, compruebe si la fuerza del resorte de la válvula se encuentra dentro de los valores indicados por el fabricante del motor.

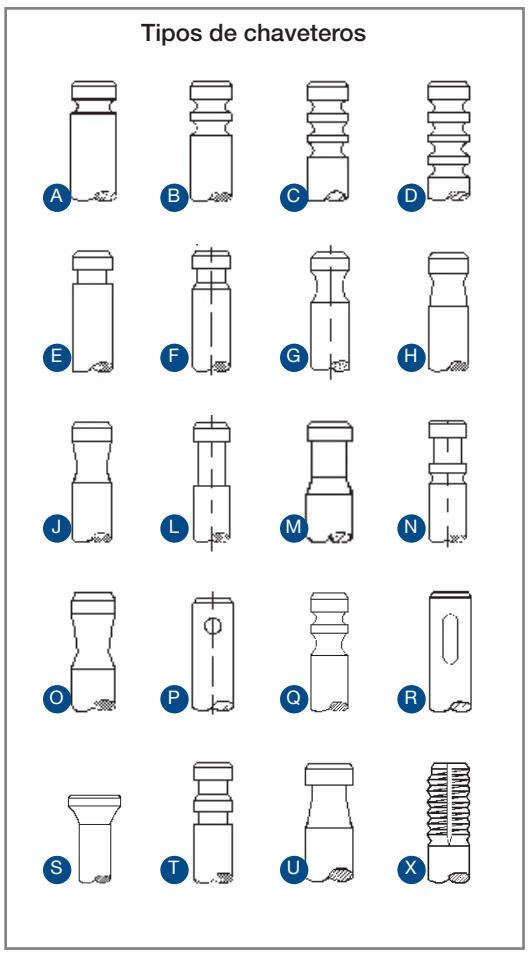


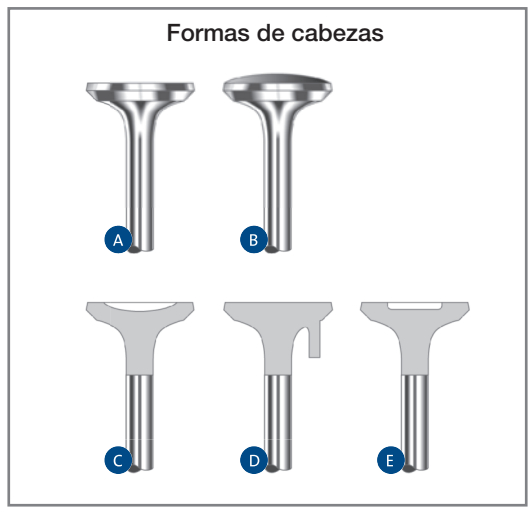
En el montaje de las válvulas siempre utilice trabas o chavetas y retenes nuevos.

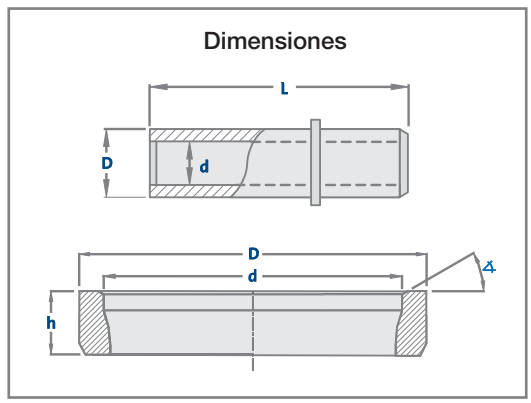
Antes de su introducción en la guía, el vástago de la válvula debe lubricarse lo suficiente con aceite nuevo para motor.

Dimensiones









Configuración de las páginas y códigos de artículos

1 MERCEDES-BENZ

MAHLE

		Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	D x d x L 7	MATERIAL 8	FORMA 9
2	Mot. OM 447 LA/449 LA	5/6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
	Motor Maxion Sprinter 2.5l.	4	IN - EX	**GC0570056**	STD	14,05 x 8,01 x 49,00	FG	F
					0,1	14,15 x 8,01 x 49,00		
	Motor OM 321 L1112-LS1112-LO1112	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
	Motor OM 352, OM 352A, OM 314 Con Cámara Interior	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
	Motor OM 352, OM 352A, OM 314-1114 (mod.'84 en ad.)	6	EX	**GE0480026**	STD	15,04 x 10,00 x 67,00	FG	A
	Motor OM 352, OM 352A, OM 314A/ Turbo L508D-L608D-L1113-L1114-L1413-LK1517	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
			EX	**GE0480031**	STD	15,03 x 10,00 x 73,00	FG	A
	Motor OM 355 L1521-L1526, OM 346, OM 355 Turbo	5/6	IN	**GA0480013**	STD	15,04 x 9,01 x 67,50	FG	A-1
			EX	**GE0480014**	STD	15,04 x 9,01 x 86,50	FG	A-1
	Motor OM 366, OM 366 Turbo	6	IN	**GA0480033**	STD	15,04 x 9,00 x 72,00	FG	A-1
					0,05	15,09 x 9,00 x 72,00	FG	A-2
			EX	**GE0480035**	STD	15,04 x 10,00 x 67,00	FG	A-1
					0,05	15,09 x 10,00 x 67,00		
	Motor OM 447, OM 449 1633	6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
	Motor OM 457 LA	6	IN - EX	**GC0480053**	STD	15,04 x 9,00 x 61,10	FG	F-1
	Motor OM 904LA 12v., OM 906LA 712, 1721 18v.	4/6	IN - EX	**GC0480068**	STD	14,04 x 8,00 x 60,00	FG	P
	Motores OM 352 e 321	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
	Motores OM 352A c/ quebra carvão-Mercedes Benz	6	EX	**GE0480044**	STD	15,04 x 10,01 x 67,00	-	A-6
	Motores OM 366, OM 352A- Mecedes Benz	6	IN	**GA0480001**	STD	15,03 x 9,01 x 72,00	-	A-1
			EX	**GE0480002**	STD	15,03 x 10,01 x 67,00	-	

1 Fabricante

2 Descripción del motor
Datos del motor
Vehículos
Año de construcción

3 Número de cilindros

4 Función
IN = Admisión
EX = Escape
IN - EX = Común

5 Medidas de la válvula en mm

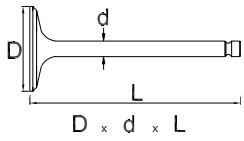
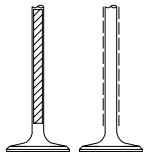
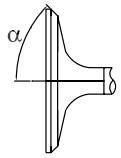
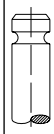
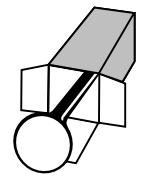
6 Materiales de la válvula/Revestimiento de la válvula
Ej.: A/M/ST/CP
- Revestimiento
- Material de construcción

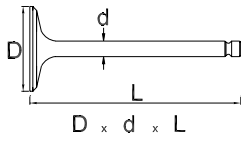
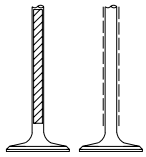
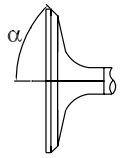
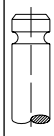
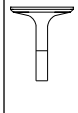
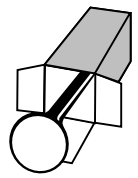
7 Asiento bonificado de la válvula/Ángulo del asiento de la válvula

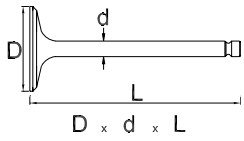
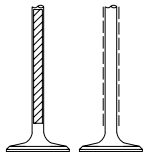
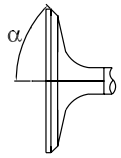
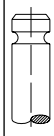
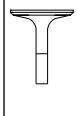
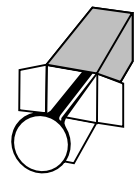
8 Modelo de acabado del vástago

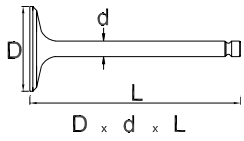
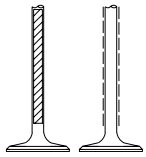
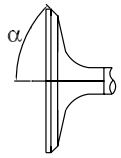
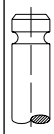
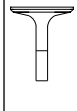
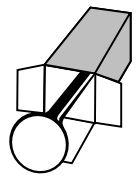
9 Forma de la cabeza

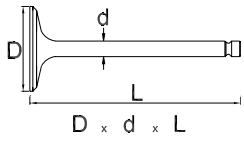
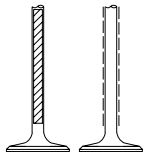
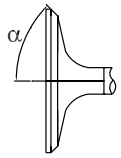
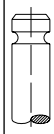
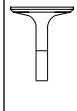
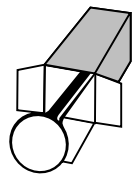
10 Número de artículo de la válvula
Ex.: VA0250002
- Número secuencial
- Línea motora

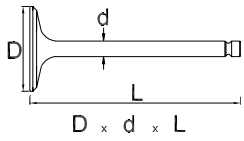
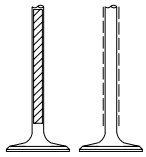
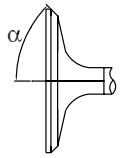
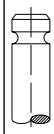
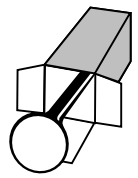
	Nº CIL.	TIPO TYPE						
Motor M70 / M73	1	IN - EX	30.30 x 6.95 x 74.80	M	45°	A	A	**VC0060905**
Motor M-790 - Trator T440/4200 Diesel	2	IN	39.10 x 8.95 x 131.95	M	45°	A	A	**VA0060904**
		EX	35.00 x 8.95 x 131.95	M	45°	A	A	**VE0060907**
Motor M-80 Diesel	1	IN	34.10 x 7.95 x 121.55	M	45°	L	A	**VA0060902**
		EX	31.00 x 7.95 x 121.45	M	45°	L	A	**VE0060906**
Motor M-85, 90, 93 - Trator 4100 Diesel	1	IN	41.05 x 7.96 x 120.85	M	45°	L	A	**VA0060903**
		EX	35.00 x 7.95 x 121.40	M	45°	L	A	**VE0060323**

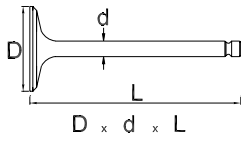
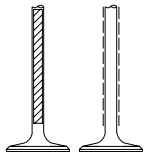
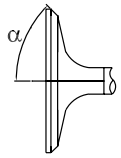
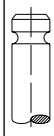
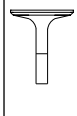
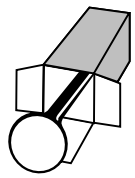
	Nº CIL.	TIPO TYPE						
Motor AR67203 - Alfa 145/146/155/156 TS 1.6i/1.8i/2.0i 16v.	4	IN	33.55 x 6.98 x 113.36	M/CP	45°30'	C	A	**VA0250168**
		EX	28.10 x 6.96 x 108.49	A/CP/M/ST	45°30'	C	A	**VE0250169**

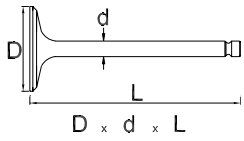
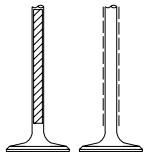
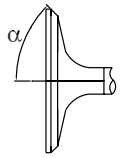
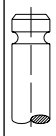
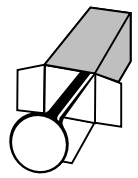
	Nº CIL.	TIPO TYPE						
Topic 2.7L	4	IN	40.50 x 7.94 x 114.60	M/N	45°	A	C	**VA0720154**
		EX	36.10 x 7.92 x 114.90	A/M/N	60°	A	E	**VE0720155**
Towner 800cc	3	IN	36.00 x 6.94 x 101.78	CS	45°	A	C	**VA0720156**
		EX	33.00 x 6.94 x 101.70	A/CP/M	45°	A	E	**VE0720157**

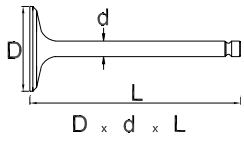
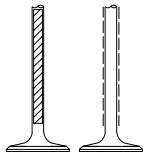
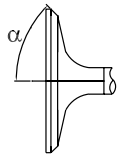
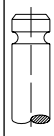
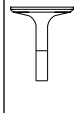
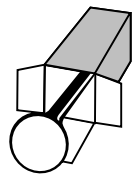
	Nº CIL.	TIPO TYPE						
Motor AGN - A3, A4 1800cc. Aspirado 20v.	4	IN	27.00 x 5.97 x 105.00	M/ST	45°15'	C	C	**VA0700242**
Motor AGU - A3, A4 1800cc. Turbo 20v.	4	IN	27.00 x 5.97 x 105.00	M/ST	45°15'	C	C	**VA0700242**
		EX	29.90 x 5.95 x 104.00	AB/M/ST/CP	45°15'	C	A	**VE0700243**

	Nº CIL.	TIPO TYPE						
Motor 318i 1800cc. 16v. - 323i, 325i, 525i 2500cc. 24v.	4/6	IN	32.87 x 5.97 x 106.10	M/CP/SH	44°30'	C	A	**VA1401226**
		EX	30.30 x 5.95 x 105.70	A/M/CP	44°30'	C	A	**VE1400820**

	Nº CIL.	TIPO TYPE						
Série 30 Genesis Asp./Turbo	4/6	IN	46.60 x 9.44 x 145.90	A/M/CP	29°30'	D	E	**VA1961403**
		EX	43.00 x 9.41 x 146.44	A/M/CP	44°30'	D	E	**VE1961404**

	Nº CIL.	TIPO TYPE						
3116	6	IN	47.00 x 8.00 x 177.18	A/M	60°45'	A	C	**VA0110232**
		EX	40.00 x 8.00 x 176.72	AN/CS/ST/ CP	45°15'	A	C	**VE0110233**
3208	8	IN	53.2 x 9.46 x 144.78	M	60°15'	B	E	**VA0110235**
		EX	45.74 x 9.44 x 144.35	A/M	45°15'	B	C	**VE0110234**
3304 NA com Injeção direta	4/6	IN	51.28 x 9.44 x 136.35	M	60°45'	B	A	**VA0110145**
Cilindro 5.75 pol. (Ø146,1 mm) 2v/Cil.	4/6	IN	59.50 x 12.60 x 236.09	AN/CS	45°45'	J	A	**VA0110140**
		EX	57.96 x 12.60 x 235.30	AN/CS	45°45'	J	A	**VE0110141**
D4D, D5 - 3304 NA com pré-câmara	4/6	IN	51.30 x 9.43 x 139.91	M	60°45'	B	C	**VA0110143**
D6C, D7E - 3306 NA com pré-câmara	4/6	EX	48.10 x 9.43 x 138.92	M	60°45'	B	C	**VE0110142**
D6C, D7E - 3306 Turbo com pré-câmara	4/6	EX	48.10 x 9.43 x 139.13	AN/CS/ST	60°45'	B	C	**VE0110144**
D6D, D6E, D6E SR, D5E (Turbo Opcional), 330,330L, 140G- 3306 Turbo com Injeção direta	4/6	EX	47.98 x 9.44 x 134.75	AN/CS/ST	60°45'	B	C	**VE0110146**
Motor 3114 4400cc.(924F), 3116 6600cc.(960F, 950F, 325, 325L) Turbo - Chevrolet Kodiak	4/6	IN	47.00 x 8.00 x 177.18	A/M	60°45'	A	C	**VA0110232**
		EX	40.00 x 8.00 x 176.72	AN/CS/ST/ CP	45°15'	A	C	**VE0110233**
Motor 3304 (D4E), 3306 (D5B, 12G, 561D)	4/6	IN	51.28 x 9.44 x 136.35	M	60°45'	B	A	**VA0110145**
Motor 3306 (814B, 815B, 816B, 235, 14G, 12G, D6D) 3304 (120G, 130G, 140G, D4E)	4/6	EX	47.98 x 9.44 x 134.75	AN/CS/ST	60°45'	B	C	**VE0110146**
Motor D330C, D333C, 1673C, 3304, 3306 (Aspirado)	4/6	IN	51.30 x 9.43 x 139.91	M	60°45'	B	C	**VA0110143**
		EX	48.10 x 9.43 x 138.92	M	60°45'	B	C	**VE0110142**
Motor D330C, D333C, 1673C, 3304, 3306 (Turbo)	4/6	EX	48.10 x 9.43 x 139.13	AN/CS/ST	60°45'	B	C	**VE0110144**
Série 356 - 3056E	4/6	IN	43.00 x 8.97 x 122.85	A/M/CP	60°	A	C	**VA0111407**
		EX	41.00 x 8.97 x 122.85	A/M/CP	60°	A	C	**VE0111408**
Série 3064 / 3066	4/6	IN	44.00 x 7.96 x 134.00	A/N	60°	E	A	**VA0111409**
		EX	37.00 x 7.95 x 134.00	A/N	60°	E	A	**VE0111410**
Série C9	6	IN	36.00 x 9.45 x 184.50	AN/CS/CP	Eatonite 65°45'	B	C	**VA0111411**
		EX	36.00 x 9.45 x 183.00	CS/X/CP	45°45'	C	C	**VE0111412**
Série 3508 / 3512	8/12	IN	56.00 x 9.45 x 219.00	M/CP	71°	B	C	**VA0111413**
		EX	56.00 x 12.58 x 219.00	AN/CS/CP	Eatonite 45°36'	E	C	**VE0111414**
Série 3046	4	IN	44.00 x 7.96 x 120.00	A/N	60°15'	E	E	**VA0111415**
		EX	35.00 x 7.94 x 120.00	A/N	60°15'	E	E	**VE0111416**

	Nº CIL.	TIPO TYPE						
Motor 1.1L 16v 4cil. ACTECO Gasolina (SQR472F) - Chery QQ	4	IN	24.50 x 4.97 x 78.28	M/N	45°30'	A	C	**VA3481577**
		EX	21.00 x 4.96 x 78.89	A/N	45°30'	A	C	**VE3481578**

	Nº CIL.	TIPO TYPE						
Motor TU3F-J2K 1360cc - Saxo, Xsara Motor TU5JP 1587cc	4	IN	39.30 x 6.97 x 111.50	M/SH	30°	C	C	**VA0440575**
		EX	31.35 x 6.97 x 111.75	A/M/CP	45°	C	C	**VE0440596**
Motor TU3JP 1400cc. 8v. Flex - C2, C3	4	IN	36.66 x 6.98 x 112.70	M/CP	45°	A	C	**VA0441091**
		EX	29.15 x 6.98 x 112.57	M/CP	45°	A	C	**VE0440588**
Motor TU5JP4 1600cc. 16v. Gasolina - C3, Picasso	4	IN	31.30 x 5.98 x 103.80	M	45°	A	C	**VA0440578**
		EX	24.50 x 5.96 x 104.40	A/M/CP	45°	A	E	**VE0440598**
Motor TU9M 954cc. - Audace, Escape, AX10E, Saxo	4	IN	34.70 x 6.97 x 112.77	M	30°	A	C	**VA0440572**
		EX	27.80 x 6.97 x 112.60	A/M/CP	45°	A	C	**VE0440593**
Motor EW10A 2.0L 16V Flex - C4 / C4 Pallas (2008->)	4	IN	33.20 x 5.97 x 106.20	M/SH	44°30'	A	C	**VA0440579**
		EX	29.07 x 5.96 x 103.60	A/M/ST/CP	44°30'	A	A	**VE0441603 (VE0440599)**
Motor EW10J4 2000cc. 16v. - Picasso	4	IN	33.20 x 5.97 x 106.20	M/SH	44°30'	A	C	**VA0440579**
		EX	29.07 x 5.96 x 103.60	A/M/ST/CP	44°30'	A	A	**VE0441603 (VE0440599)**
Motor XU7JP4 1800cc. 16v. Gasolina - Xantia, Xsara	4	IN	34.60 x 6.98 x 106.40	M/SH	44°30'	C	C	**VA0440571**
		EX	29.50 x 6.98 x 105.77	A/M/CP	44°30'	C	C	**VE0440590**
Visa GT, GTI BX19TRS	4	IN	41.58 x 7.97 x 108.74	M/SH	44°50'	A	A	**VA0440551**
		EX	34.48 x 7.97 x 108.32	A/M/CP	44°22'	A	A	**VE0440585**
Motor 2800cc. - Jumper Aspirada	4	IN	43.35 x 7.99 x 121.80	AB/M/CP	60°	A	C	**VA0250513**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**

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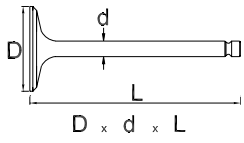
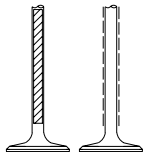
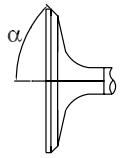
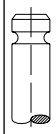
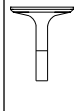
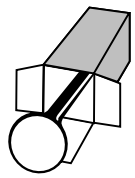
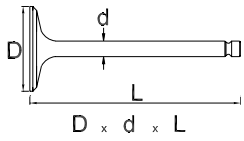
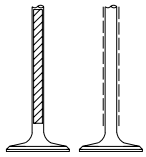
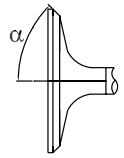
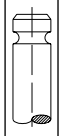
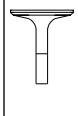
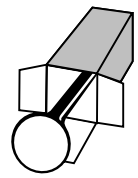
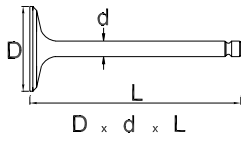
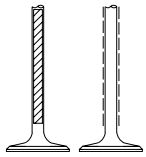
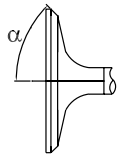
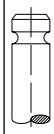
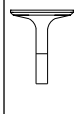
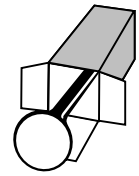
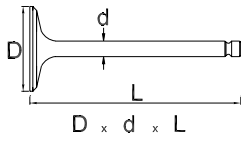
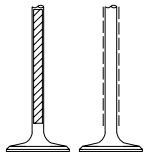
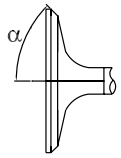
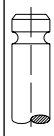
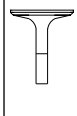
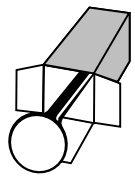
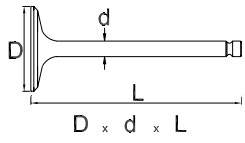
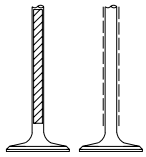
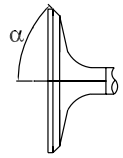
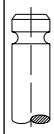
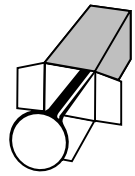
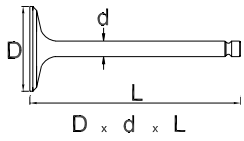
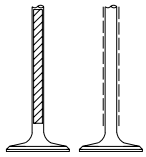
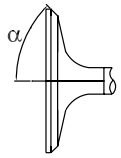
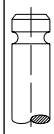
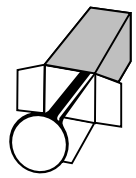
	Nº CIL.	TIPO TYPE							
Motor L10, M11 Eletrônico	6	IN	42.55 x 9.63 x 195.45	M	30°	A	C	**VA0210237**
		EX	42.42 x 9.62 x 195.45	A/M/ST/CP	30°	A	C	**VE0210236**
Motor L 10 Mecânico	6	IN	42.38 x 9.63 x 176.35	M/CP	30°	A	C	**VA0210446**
		EX	42.43 x 9.63 x 176.30	AN/CS/ST/ CP	30°	A	C	**VE0211261**
Motor Série C 6CT, CTA, CTAA 8.3L Aspirado, Turbo, Turbo Aftercooler, Turbo Intercooler	6	IN	52.00 x 9.49 x 151.18	M/CP	60°	A	A	**VA0210153**
		EX	46.06 x 9.49 x 150.94	A/M/CP	45°	A	A	**VE0210152**
N855, NT855, NTA855 Turbo - Motor NH-NHE 220/ 225/ 230/ 250, NHCT, NTA 370/380/420	6/12	IN	47.60 x 11.43 x 179.30	M/SH	30°	B	A	**VA0210147**
NTA855 Turbo + aftercooler, NTTA855 Biturbo + Aftercooler Marítimo (Big Cam)	6/12	EX	47.50 x 11.46 x 179.42	AN/CS	60°	B	A	**VE0210148**
		EX	47.50 x 11.46 x 179.42	A/CS	60°	B	A	**VE0210149**
Série B 5.9L: 6BTA-Turbo + aftercooler, 6BTAA-Turbo + intercooler	4/6	IN	44.98 x 7.97 x 129.05	M/CP	30°	A	A	**VA0210151**
		EX	42.03 x 7.96 x 128.96	A/CP	45°	A	A	**VE0210150**
Série C 8.3L: 6CTA Turbo + aftercooler, 6CTAA Turbo + Intercooler	6	IN	52.00 x 9.49 x 151.18	M/CP	60°	A	A	**VA0210153**
Motor G5.9,GB,B4.5,B5.9,Q SB3.9,QSB4.5,QSB5.9,ISBe Turbo Electrônico Ecológico	4/6	IN	33.00 x 7.00 x 124.65	M/CP	30°	A	C	**VA0210442**
		EX	33.00 x 7.00 x 124.28	A/M/CP	45°	A	C	**VE0210443**
Motor 505 CI, Série ISC Turbo 8.3L 24v.	6	IN	38.00 x 7.98 x 137.76	M/CP	30°	A	A	**VA0211371**
		EX	38.03 x 7.97 x 137.73	A/M/CP	45°	A	A	**VE0211372**
Motor Série C Eletrônico	6	IN	38.00 x 7.98 x 137.75	A/M/CP	60°	A	C	**VA0211427**
		EX	38.00 x 7.98 x 137.77	A/M/CP	45°	A	C	**VE0211428**
Série K	6	IN	56.32 x 12.58 x 191.75	M/CP	60°	E	E	**VA0211465**
		EX	56.41 x 12.56 x 191.76	AN/CS/ST/ CP	60°	E	E	**VE0211466**

	Nº CIL.	TIPO TYPE						
127,147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300)	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
		EX	33.13 x 7.98 x 108.95	A/CP/ST	Stellit 44°30'	A	A	**VE0250059**
128, 147, Spazio, Vivace, Uno, Duna, Fiorino (1100-1300)	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
		EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
128, Motor 1500cc.	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
147, Uno, Prêmio, Elba, Mille, Brio Motor 1000/1050/1300/1500cc. (Alc./ Gas.) Carburado e EFI	4	IN	34.03 x 7.97 x 110.15	A/M/CP	44°30'	A	A	**VA0250002**
		EX	28.98 x 7.98 x 110.60	A/CP	44°30'	A	A	**VE0250001**
147, Uno, Spazio, Vivace, Duna Motor Tipo 1400-1600cc. 1378N (Gasolina)	4	EX	31.00 x 7.98 x 109.00	A/ST/CP	44°30'	A	A	**VE0250053**
Brava, Marea 2000cc. 20v.	4	IN	30.00 x 6.98 x 113.15	A/M/CP	45°30'	D	A	**VA0250160**
		EX	26.10 x 6.97 x 108.58	A/CP/M/ST	45°30'	D	A	**VE0250161**
Fire 1.0/1.3 16v. - Dobló / Palio / Weekend / Siena / Strada	4	IN	26.90 x 5.99 x 95.20	M/CP/SH	44°30'	C	C	**VA0250166**
		EX	22.40 x 5.98 x 96.18	AB/M/ST	45°	C	A	**VE0250163**
Fire 1.0 8v. 65CV/1.3 8v. 67cv - Fiorino, Palio, Weekend, Siena, Strada, Uno Mille (->08)	4	IN	31.40 x 6.99 x 97.00	M/CP/SH	45°50'	A	C	**VA0250162**
		EX	27.35 x 6.99 x 97.20	A/ST/CP	44°30'	A	A	**VE0250167**
Fire 1.0L 8V Flex (09->) / Fire EVO 1.0L 8V Flex (10->)		EX	27.30 x 4.98 x 98.77	A/M/CP	44°45'	C	C	**VE0250272**
Fire 1.4L 8v. Flex - Palio/ Idea/ Siena Fase II - Punto / Siena Fase III (06->)	4	IN	33.18 x 4.99 x 98.20	M/CP	44°45'	C	C	**VA0250271**
		EX	27.30 x 4.98 x 98.77	A/M/CP	44°45'	C	C	**VE0250272**
Fire EVO 1.4L 8v Flex (11->)	4	EX	28.00 x 4.99 x 100.46	A/M/CP	45°30'	C	C	**VE0251476**
Marea 2.4L 20v	4	IN	33.55 x 6.98 x 113.36	M/CP	45°30'	C	A	**VA0250168**
		EX	28.10 x 6.96 x 108.49	A/CP/M/ST	45°30'	C	A	**VE0250169**
Marea, Brava, Bravo, Stilo 1800cc. 16v. - Motor Alfa AR67203	4	IN	33.55 x 6.98 x 113.36	M/CP	45°30'	C	A	**VA0250168**
		EX	28.10 x 6.96 x 108.49	A/CP/M/ST	45°30'	C	A	**VE0250169**
Motor 1600cc. Todos - Uno, Prêmio, Duna, Elba, Fiorino, Tipo 1.6 IE/ MPI	4	IN	39.50 x 7.98 x 108.50	CP/M	44°30'	A	A	**VA0250054**
		EX	31.00 x 7.98 x 109.00	A/CP/ST	Stellit 44°30'	A	A	**VE0250053**
Motor 1000/1500cc. - Palio, Weekend, Pick Up Trekking, Working 1500cc. Gasolina MPI	4	IN	36.45 x 7.98 x 110.20	M/CP	45°	A	A	**VA0250018**
		EX	29.40 x 7.98 x 110.60	A/CP	Stellit 44°30'	A	A	**VE0250019**
Motor 8140.47 Aspirado - Ducato 2500cc. DS / Motor 2.8L Aspirado - Ducato	4	IN	43.35 x 7.99 x 121.80	AB/M/CP	60°	A	C	**VA0250513**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**
Motor 1.8L 8V Gasolina - Palio (EX, ELX, HLX) 03->07 // Palio Weekend (EX, ELX, HLX, Stile e Adventure) 03->06 // Strada (Working, Trekking, Adventure) 03->08 // Siena (EX, ELX, HLX) 03->07	4	IN	38.00 x 7.00 x 101.50	M/CP	44°	A	C	**VA0140086**
		EX	31.00 x 6.99 x 101.50	A/ST/CP	44°	A	E	**VE0140370**
Motor 1.8L 8V Flex -> Palio (R, ELX, HLX) 06->10 // Palio Weekend (HLX, Trekking, Adventure) 06->10 // Strada (Trekking, Adventure) 06->12 // Siena (HLX) 06->10	4	IN	38.00 x 5.97 x 101.63	M/CP	44°	C	C	**VA0251614**
		EX	31.05 x 5.94 x 101.56	A/M/N	44°	C	C	**VE0251615**
Motor E-torQ 1.6/1.8L 16V Flex -> Bravo, Doblô, Idea, Linea, Palio, Punto, Siena, Strada	4	IN	30.77 x 5.94 x 109.52	M/CP	44°30'	C	C	**VA0251610**
		EX	23.27 x 5.92 x 118.34	AB/M/N	44°30'	C	E	**VE0251611**

	Nº CIL.	TIPO TYPE						
Palio, Siena, Marea Motor 1.6L 16v. injeção (Gasolina)	4	IN	30.40 x 6.99 x 102.50	M/CP	44°30'	A	C	**VA0250165**
		EX	29.90 x 6.99 x 102.35	A/CP/ST	45°30'	A	C	**VE0250164**
Tempra, Tempra SW, Tipo Motor 2.0L 8v. Injeção (Alc./ Gas.)	4	IN	43.50 x 7.98 x 105.52	A/CP	45°30'	A	C	**VA0250159**
		EX	36.15 x 7.98 x 105.95	A/CP/M	45°30'	A	A	**VE0250158**
Tempra, Tipo Motor 2000cc. 16v.	4	IN	34.50 x 7.00 x 127.93	A/M/ST/CP	45°30'	A	A	**VA0250052**
		EX	28.38 x 6.98 x 125.55	A/CP/M/ST	45°50'	A	C	**VE0250051**
Uno, Palio, Siena, Regatta, Duna, Motor Tipo 1600cc. 1580N (Gasolina)	4	IN	39.50 x 7.98 x 108.50	CP/M	44°30'	A	A	**VA0250054**
		EX	31.00 x 7.98 x 109.00	A/CP/ST	Stellit 44°30'	A	A	**VE0250053**
Uno, Prêmio, Elba, Fiorino 1500cc. - Sevel Argentino	4	IN	36.00 x 7.98 x 108.50	M/CP	45°30'	A	A	**VA0250060**
		EX	33.13 x 7.98 x 108.95	A/CP/ST	Stellit 44°30'	A	A	**VE0250059**

	Nº CIL.	TIPO TYPE							
C1215, C1415, C1617 Motor Cummins 5.9L Turbo	4/6	IN	44.98 x 7.97 x 129.05	M/CP	30°	A	A	**VA0210151**
		EX	42.03 x 7.96 x 128.96	A/CP	45°	A	A	**VE0210150**
C1422, C1622, C2422 Turbo - C3224, C3530 Turbo+Intercooler Motor Cummins 8.3L	6	IN	52.00 x 9.49 x 151.18	M/CP	60°	A	A	**VA0210153**
		EX	46.06 x 9.49 x 150.94	A/M/CP	45°	A	A	**VE0210152**
Corcel / Escort / Verona - Motor CHT 1.3/1.6L e AE 1.0/1.6L (Alc./Gas.)	4	IN	32.40 x 6.97 x 96.50	CP/M	45°	L	C	**VA0590043**
		EX	28.32 x 6.97 x 96.20	A/ST/CP	44°52'	L	C	**VE0590042**
Corcel I / II Todos - 1.4L Álcool/ Gasolina, 1.6L Álcool	4	IN	32.37 x 6.97 x 89.65	M	45°	L	C	**VA0590093**
Corcel II , Belina II - Motor 1.6L Gasolina	4	IN	37.90 x 7.00 x 89.70	M	45°15'	L	C	**VA0590094**
Corcel II , Belina I / II - Motor 1.4L/1.6L Álcool / Gasolina	4	EX	28.40 x 7.00 x 89.40	A/M	45°	L	C	**VE0590092**
Corcel, Escort, Verona - Motor CHT / AE 1.6L (82->96) Gasolina	4	IN	36.38 x 6.98 x 97.02	CP/M	45°	L	C	**VA0590044**
Del Rey, Belina, Escort, Verona, Versailles, Royale, AP1800 (07/94->96)	4	IN	38.00 x 7.96 x 91.40	M/SH	44°30'	C	C	**VA0590066**
		EX	33.00 x 7.94 x 90.80	A/M/ST	Stellit 45°10'	C	A	**VE0590065**
Escort, Focus, Mondeo - Motor Zetec 1.8/2.0 16V	4	IN	31.95 x 6.04 x 97.10	M/CP/SH	45°30'	C	A	**VA0590180**
		EX	27.95 x 6.02 x 96.70	AB/M/CP	45°	C	C	**VE0590182**
EcoSport, Focus, Mondeo, Ranger - Motor Duratec HE 2.0L 16v / EcoSport, Fusion, Ranger 2.3L 16v.	4	IN	35.00 x 5.48 x 103.40	M/CP	45°15'	A	C	**VA0590255**
		EX	30.00 x 5.48 x 104.60	A/CP	45°15'	A	C	**VE0590256**
F1000, F2000, F4000, F7000, F11000, F12000, F13000, F14000, F19000, F21000 - Motor MWM D229	3/4/ 6	IN	40.98 x 8.96 x 116.95	CP/M	44°30'	C	A	**VA0130011**
		EX	37.98 x 8.96 x 116.95	CP/M	44°45'	C	A	**VE0130010**
F700, F750 (->68), F11000 (->82) - Motor Perkins 6-357	4/6	IN	46.89 x 9.47 x 132.40	CS	45°	A	A	**VA0570033**
		EX	40.50 x 9.45 x 132.36	M	45°15'	A	C	**VE0570034**
F700, F750 (68->72), F11000, F12000, F13000 - Motor Perkins 6-358 ID	6/8	IN	45.22 x 9.47 x 139.45	A/CP	45°	A	A	**VA0570111**
		EX	38.88 x 9.46 x 139.75	A/ST/CP	45°	A	A	**VE0570112**
Fiesta, Ká 1.0 HCS 8V - Motor Endura (Nacional e Exportação)	4	IN	33.00 x 7.03 x 104.05	M/CP	45°	C	C	**VA0590181**
Fiesta, Ká - Motor Endura 1.0/1.3L (01.97->05.99)	4	EX	28.87 x 7.01 x 104.35	A/CP/M/ST	44°52'	C	C	**VE0590173**
Fiesta, Courier - Motor Endura 1.3L (Nacional e Exportação)	4	IN	34.35 x 7.04 x 104.10	M/CP	45°	C	C	**VA0590172**
Fiesta, Courier - Motor Zetec 1.4L 16V	4	IN	28.10 x 5.96 x 97.35	M/CP/SH	45°30'	C	C	**VA0590179**
		EX	24.15 x 5.96 x 99.40	A/N	45°30'	C	E	**VE0590178**
Fiesta, Focus, Ká, Ecosport, Courier - Motor 1.6L 8v Zetec Rocam (Gasolina)	4	IN	40.00 x 5.97 x 109.50	CS/CP	45°30'	C	C	**VA0590174**
		EX	34.00 x 5.96 x 109.86	A/M/CP/ST	45°15'	C	C	**VE0590175**
Fiesta, Focus, Ká, Ecosport, Courier - Motor 1.6L 8v Zetec Rocam (Flex)	4	IN	39.92 x 4.96 x 109.62	M/CP	45°	C	C	**VA0591473**
		EX	34.00 x 5.96 x 109.86	A/M/CP/ST	45°15'	C	C	**VE0590175**
New Fiesta - Motor Sigma 1.6L 16v Flex	4	IN	30.10 x 5.97 x 99.00	M/N	44°30'	C	C	**VA0591471**
		EX	24.10 x 5.96 x 101.40	AB/N	44°30'	C	C	**VE0591472**
Galaxy, Escort XR3, 2000cc. - Motor injeção DOHC - Tucho Hidráulico - Gasolina	4	EX	33.00 x 7.94 x 90.80	A/M/ST	Stellit 45°10'	C	A	**VE0590065**

	Nº CIL.	TIPO TYPE						
Galaxy, Escort, Orion 1600-1800 cc. Injeção - Tucho Hidráulico - Motor UD - Gasolina	4	IN	38.00 x 7.96 x 91.40	M/SH	44°30'	C	C	**VA0590066**
		EX	33.00 x 7.94 x 90.80	A/M/ST	Stellit 45°10'	C	A	**VE0590065**
Ká, Fiesta, Escort HCS 1000cc. - Escort HCS 1100cc.	4	IN	33.00 x 7.03 x 104.05	M/CP	45°	C	C	**VA0590181**
		EX	28.87 x 7.01 x 104.35	A/CP/M/ST	44°52'	C	C	**VE0590173**
Ká, Fiesta, Escort, Orion HCS 1.3L - Gasolina	4	EX	28.87 x 7.01 x 104.35	A/CP/M/ST	44°52'	C	C	**VE0590173**
Ká, Courier, Fiesta - Motor 1.0L 8v Zetec Rocam Gasolina	4	IN	32.45 x 5.98 x 111.10	M/CP	45°	C	C	**VA0590170**
		EX	28.10 x 5.96 x 110.65	A/M/CP/ST	45°	C	C	**VE0590171**
Ká, Courier, Fiesta - Motor 1.0L 8v Zetec Rocam Flex	4	IN	32.45 x 5.97 x 111.14	M/N	45°	C	C	**VA0591474**
		EX	28.10 x 5.96 x 110.65	A/M/CP/ST	45°	C	C	**VE0590171**
Ranger - Motor International NGD 3.0L 16v.	4	IN	32.00 x 5.94 x 114.19	M/CP	45°	C	C	**VA0570231**
		EX	29.00 x 5.93 x 114.20	AB/M/CP	45°	C	C	**VE0570232**
Ranger / Explorer (->01) - Motor 24CU 4.0L V6 Gasolina	6	IN	43.50 x 8.04 x 103.85	M	45°52'	C	C	**VA0590275**
Ranger / Explorer (->01) - Motor 244 EFI 4.0L V6 Gasolina	6	EX	34.56 x 8.01 x 104.13	A/M/CP	44°30'	C	C	**VE0590276**
Ranger / Explorer 4.0L V6 (01->)	6	IN	46.00 x 7.00 x 114.90	M	45°20'	C	C	**VA0590221**
		EX	39.00 x 7.00 x 114.90	A/N	45°20'	C	C	**VE0590222**
Ranger Motor 2.5 MPI	4	IN	44.07 x 6.98 x 121.60	M/CP	45°	C	C	**VA0591461**
		EX	38.14 x 6.96 x 122.05	A/CP	45°	C	C	**VE0591462**
Ranger Motor Maxion 2.8L HSTD Power Stroke	4	IN	38.95 x 7.97 x 116.38	A/M/CP	30°	C	A	**VA0570250**
		EX	36.50 x 7.97 x 116.38	A/M/CP	45°	C	A	**VE0570230**
Versailles, Royale - AP2000 EFI (92->96) Injeção Eletrônica	4	IN	39.98 x 7.96 x 98.70	M/SH	Stellit 45°15'	C	E	**VA0590067**
		EX	33.00 x 7.94 x 90.80	A/M/ST	Stellit 45°10'	C	A	**VE0590065**

	Nº CIL.	TIPO TYPE						
Jeep, Rural, Pick up 2600 / 3000 (65->)	4	IN	44.50 x 9.50 x 115.20	M	45°	L	C	**VA0230119**
		EX	35.88 x 8.63 x 117.10	A	45°	E	E	**VE0230118**

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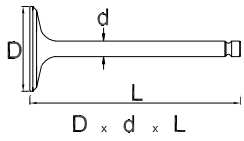
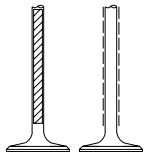
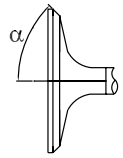
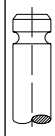
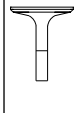
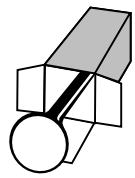
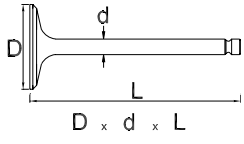
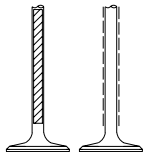
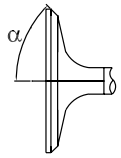
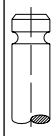
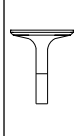
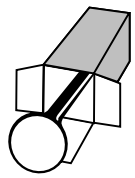
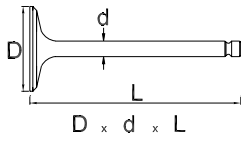
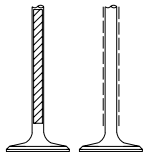
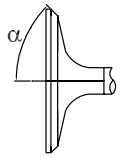
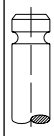
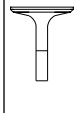
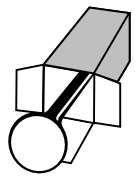
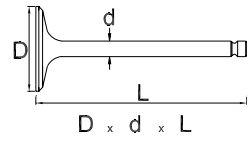
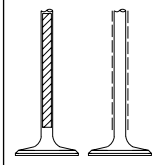
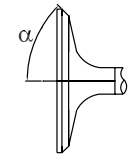
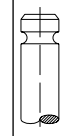
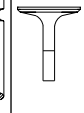
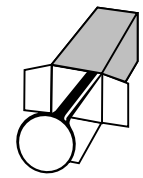
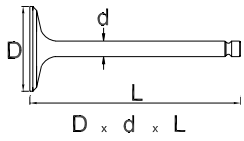
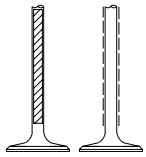
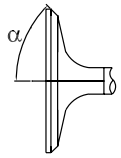
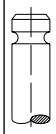
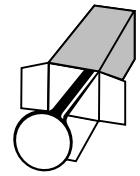
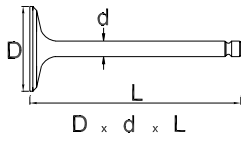
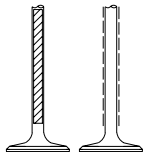
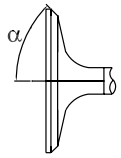
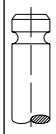
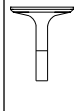
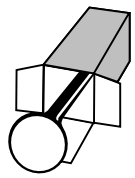
	Nº CIL.	TIPO TYPE						
Astra 1.8L Gas. (99->01) / Astra 2.0L Gas., 1.8L Álcool, 2.0L Flex / Vectra 2.2/2.4L Gas. / S10 2.2/2.4L Gas. (95->), (Todos Motores MPFI 8v.)	4	IN	41.80 x 7.00 x 104.20	CP/M	44°	A	C	**VA0140040**
		EX	36.50 x 6.99 x 104.00	AB/M/CP	Stellit 44°	A	A	**VE0140039**
Astra Geração II 2.0L 16V, Vectra 2.0/2.2L Geração II 16V / Blazer 2.4L Gas.	4	IN	32.00 x 5.90 x 102.10	CP/M	45°20'	C	A	**VA0140072**
		EX	29.00 x 5.96 x 92.20	A/CP/M/ST	Stellit 44°45'	C	A	**VE0140071**
Blazer, S10 4.3L V6 - Motor Vortec L35 200HP	6	IN	49.20 x 8.67 x 123.95	CP/CS	45°	F	C	**VA0140183**
		EX	38.10 x 8.67 x 125.00	A/CP	45°	F	C	**VE0140184**
C10, C60, Veraneio - Motor 261 (64->79)	4/6	IN	47.60 x 8.70 x 162.20	CS	60°	T	E	**VA0140106**
Chevette - Motor 1.4/1.6L Gasolina - Álcool (1973->)	4	IN	38.98 x 7.97 x 98.45	CP/M	44°	A	C	**VA0140084**
		IN	38.98 x 8.05 x 98.45	CP/M	44°	A	C	**VA0140084 0,076**
		IN	38.98 x 8.10 x 98.45	CP/M	44°	A	C	**VA0140084 0,127**
		IN	38.98 x 8.12 x 98.45	CP/M	44°	A	C	**VA0140084 0,152**
		IN	38.98 x 8.22 x 98.45	CP/M	44°	A	C	**VA0140084 0,254**
		IN	38.98 x 8.27 x 98.45	CP/M	44°	A	C	**VA0140084 0,304**
		IN	38.98 x 8.35 x 98.45	CP/M	44°	A	C	**VA0140084 0,381**
		IN	38.98 x 8.48 x 98.45	CP/M	44°	A	C	**VA0140084 0,508**
		IN	38.98 x 8.73 x 98.45	CP/M	44°	A	C	**VA0140084 0,762**
		EX	31.98 x 7.96 x 98.95	A/CS	44°	A	A	**VE0140083**
		EX	31.98 x 8.03 x 98.95	A/CS	44°	A	A	**VE0140083 0,076**
		EX	31.98 x 8.08 x 98.95	A/CS	44°	A	A	**VE0140083 0,127**
		EX	31.98 x 8.11 x 98.95	A/CS	44°	A	A	**VE0140083 0,152**
		EX	31.98 x 8.21 x 98.95	A/CS	44°	A	A	**VE0140083 0,254**
		EX	31.98 x 8.26 x 98.95	A/CS	44°	A	A	**VE0140083 0,304**
		EX	31.98 x 8.34 x 98.95	A/CS	44°	A	A	**VE0140083 0,381**
		EX	31.98 x 8.46 x 98.95	A/CS	44°	A	A	**VE0140083 0,508**
		EX	31.98 x 8.72 x 98.95	A/CS	44°	A	A	**VE0140083 0,762**
Corsa 1.0/1.4L (->02/96) / Corsa 01 1.0L 8v. MPFI - Gas. / Corsa 1.0L - Flex / Celta 1.0L VHC Flex / Corsa Classic 1.0/1.6L Gasolina/Álcool/Flex	4	IN	32.98 x 7.00 x 105.00	CP/M	44°	A	C	**VA0140015**
		EX	28.98 x 6.99 x 105.00	A/CP	44°	A	A	**VE0140014**
Corsa 1.0L 16v.	4	IN	25.00 x 5.96 x 104.12	CP/M	45°15'	C	C	**VA0140026**
		EX	19.80 x 5.94 x 103.00	A/M/CP	Stellit 44°45'	C	C	**VE0140025**
Corsa (Hatch/Sedan/Wagon) 1.6L 16v. / Tigra, Astra, Vectra Motor C16XE 1.6L 16v. Gasolina	4	IN	31.00 x 5.96 x 103.15	CP/M	45°	C	A	**VA0140076**
		EX	27.50 x 5.94 x 102.20	A/CP/M/ST	Stellit 45°	C	A	**VE0140075**
Corsa (Hatch/Sedan), Pick up Corsa Motor C16NZ 1.6L 8v. Gasolina	4	IN	38.00 x 7.00 x 101.50	CP/M	44°	A	C	**VA0140086**
		EX	31.00 x 6.90 x 101.50	A/CP/M	46°	A	E	**VE0140085**
D10 Motor Perkins 4.236 ID	6	IN	44.20 x 9.47 x 122.80	CP/M	45°	A	A	**VA0570024**
		EX	36.68 x 9.45 x 123.20	A/CP	45°	A	A	**VE0570023**
D20 Motor Maxion S4	4	IN	44.22 x 9.47 x 122.72	CP/M	45°	C	A	**VA0570123**
		EX	38.20 x 9.47 x 123.10	A/M/ST/CP	45°	C	C	**VE0570122**
D20 Motor Perkins Q20B4.236, B4.248	4	IN	44.18 x 9.47 x 122.80	CP/M	45°	C	A	**VA0570038**
		EX	36.57 x 9.46 x 123.20	A/CP/M	45°	C	A	**VE0570037**
D20 Aspirada/Turbo - Motor Maxion S4T, S4T Plus 4.0L	4	IN	44.20 x 9.48 x 122.50	A/M/CP	30°	C	A	**VA0570657**
		EX	38.20 x 9.47 x 123.10	A/M/ST/CP	45°	C	C	**VE0570122**
Motor Caterpillar 3114 4.4L, 3116 6.6L (Turbo) - Kodiak	4/6	IN	47.00 x 8.00 x 177.18	A/M	60°45'	A	C	**VA0110232**
		EX	40.00 x 8.00 x 176.72	AN/CS/ST/ CP	45°15'	A	C	**VE0110233**

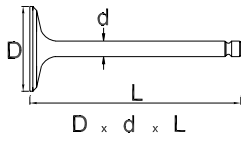
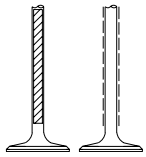
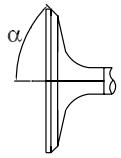
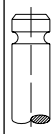
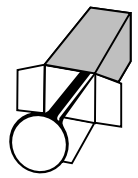
	Nº CIL.	TIPO TYPE						
Monza 1.6/1.8L Fase II Carburado, Monza, Kadett, Ipanema 1.8/ 2.0L EFI, Monza, Kadett, Ipanema, Omega, Vectra 2.0L MPFI, Omega, Suprema, S10 2.2L MPFI	4	EX	36.50 x 6.99 x 104.00	AB/M/CP	Stellit 44°	A	A	**VE0140039**
Monza 1.6/1.8L Fase I	4	IN	40.98 x 7.98 x 106.45	CP/CS	44°	A	E	**VA0140114**
		IN	40.98 x 8.05 x 106.45	CP/CS	44°	A	E	**VA0140114 0,076**
		IN	40.98 x 8.36 x 106.45	CP/CS	44°	A	E	**VA0140114 0,381**
		IN	40.98 x 8.74 x 106.45	CP/CS	44°	A	E	**VA0140114 0,762**
		EX	34.98 x 7.96 x 106.10	A/CP	44°	A	E	**VE0140113**
		EX	34.98 x 8.04 x 106.10	A/CP	44°	A	E	**VE0140113 0,076**
		EX	34.98 x 8.35 x 106.10	A/CP	44°	A	E	**VE0140113 0,381**
		EX	34.98 x 8.73 x 106.10	A/CP	44°	A	E	**VE0140113 0,762**
Monza, Kadett, Ipanema 2.0L Carburado, Omega, S10, Blazer 2.2L Injeção (Gasolina)	4	IN	43.00 x 7.00 x 104.20	CP/M	46°	A	A	**VA0140041**
		EX	36.50 x 6.99 x 104.00	AB/M/CP	Stellit 44°	A	A	**VE0140039**
Motor 194-230-234-236-250G (62->78), 262-267-292-305-327 (63->87)	6/8	IN	43.70 x 8.67 x 124.80	M	45°	T	E	**VA0140104**
		IN	43.70 x 9.05 x 124.80	M	45°	T	E	**VA0140110**
		EX	38.10 x 8.67 x 125.00	A	45°	T	E	**VE0140105**
		EX	38.10 x 8.75 x 125.00	A	45°	T	E	**VE0140107**
		EX	38.10 x 9.05 x 125.00	A	45°	T	E	**VE0140109**
Motor 327 (62/68) 350 (68/86) 400 SB	6/8	EX	38.10 x 8.67 x 125.00	A	45°	T	E	**VE0140105**
		EX	38.10 x 8.75 x 125.00	A	45°	T	E	**VE0140107**
		EX	38.10 x 9.05 x 125.00	A	45°	T	E	**VE0140109**
MOTOR 1.0L 8V FLEX - ONIX (2012->)	4	IN	33.00 x 5.96 x 104.70	M/LCP	46°	C	C	**VA0141431**
		EX	29.00 x 5.95 x 104.70	AB/M/N	46°	C	C	**VE0141576**
Motor 1.8L 16V Família I - Meriva, Stilo (Gasolina/Flex)	4	IN	31.20 x 5.96 x 101.40	M/CP	44°30'	C	C	**VA0140226**
		EX	27.50 x 5.94 x 100.76	A/M/ST/CP	45°	C	C	**VE0140248**
Motor 1.4L 8V SOHC - Ágile, Celta, Corsa, Meriva, Montana, Prisma (Motor Bicombustível e Econoflex)	4	IN	38.00 x 5.97 x 104.96	M/CP	44°30'	C	C	**VA0141396**
		EX	31.00 x 5.94 x 105.00	A/M/ST/CP	44°30'	C	C	**VE0141397**
Motor 1.4L 8V Flex - Onix (2012->)	4	IN	38.00 x 5.97 x 104.96	M/CP	44°30'	C	C	**VA0141396**
		EX	31.00 x 5.94 x 105.00	AB/M/N	46°	C	C	**VE0141573**
Motor ECOTEC 1.6L 16V (LFJ) Flex - Sonic (2012->)	4	IN	31.20 x 4.98 x 105.71	M/N	45°30'	C	E	**VA0141581**
		EX	27.50 x 4.96 x 104.84	AB/N	45°30'	C	C	**VE0141582**
Motor ECOTEC 6 1.8L 16V (N18XFF) Flex - Cruze (2011->)	4	IN	31.15 x 4.98 x 113.82	M/CP/SH	45°	C	C	**VA0141579**
		EX	27.50 x 4.96 x 113.17	A/M/CP	45°	C	C	**VE0141580**
Motor ECOTEC 2.4L 16V Gasolina - Captiva (2009->)	4	IN	30.10 x 5.95 x 100.96	AB/CS/CP	45°20'	C	C	**VA0141574**
		EX	35.00 x 5.96 x 102.40	M/N	45°30'	C	C	**VE0141575**
Opala, Caravan - 151 (74->79)/ 153 (69->73)/ 230 (69->71)/ 151 (80->92)	4/6	IN	43.70 x 8.67 x 124.80	M	45°	T	E	**VA0140104**
Opala, Caravan - 151 (74->79)/ 153 (69->73)/ 230 (69->71)	4/6	IN	43.70 x 8.75 x 124.80	M	45°	T	E	**VA0140108**
		IN	43.70 x 9.05 x 124.80	M	45°	T	E	**VA0140110**
Opala, Caravan - 250 (69->79)/ C10, Veraneio - 151 (76->79)/ C60 - 292 (80->)	4/6	EX	38.10 x 8.67 x 125.00	A	45°	T	E	**VE0140105**
		EX	38.10 x 8.75 x 125.00	A	45°	T	E	**VE0140107**
		EX	38.10 x 9.05 x 125.00	A	45°	T	E	**VE0140109**

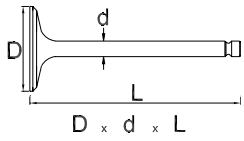
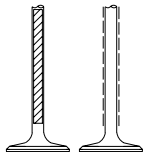
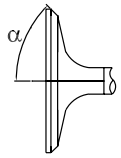
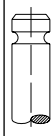
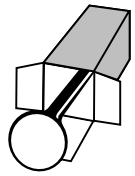
	Nº CIL.	TIPO TYPE						
Pick Up C10 Motor XD3 Diesel (Turbo)	4	IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567**
		IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567+04**
		IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567+08**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581+04**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581+08**
Silverado Conquest - Motor MWM 4.2L Turbo Diesel	4/6	IN	33.00 x 6.96 x 105.10	M/CP	30°	C	A	**VA0130277**
		EX	40.00 x 6.97 x 105.10	A/M/ST/CP	45°	C	A	**VE0130278**
S10, Blazer, Silverado Motor Maxion 2.2L	4	IN	38.95 x 7.97 x 116.38	A/M/CP	30°	C	A	**VA0570250**
		EX	36.50 x 7.97 x 116.38	A/M/CP	45°	C	A	**VE0570230**
Vectra, Kadett, Monza, Omega Motor 1.8/2.0/2.2L, Astra 2.0L, Blazer, S10 2.2L	4	IN	41.80 x 7.00 x 104.20	CP/M	44°	A	C	**VA0140040**
		EX	36.50 x 6.99 x 104.00	AB/M/CP	Stellit 44°	A	A	**VE0140039**

	Nº CIL.	TIPO TYPE						
Biz 125 - Gasolina	1	IN	24.00 x 5.00 x 72.00	M/CP	45°15'	A	C	**VA0510227**
		EX	21.00 x 5.00 x 72.00	A/M/CP	45°15'	A	C	**VE0510228**
CB400	2	IN	26.00 x 5.50 x 95.00	M	45°15'	A	C	**VA0510191**
		EX	32.00 x 6.60 x 100.60	A	45°	A	C	**VE0510192**
CBX 150 Aero, NX150 (88->)	1	IN	31.50 x 5.50 x 89.00	CP/M	45°	A	E	**VA0510070**
		EX	27.00 x 5.50 x 88.80	A/CP/M/ST	Stellit 45°30'	A	C	**VE0510069**
CG, ML125 cc (->90); CG Today, Cargo (->91)	1	IN	29.00 x 5.50 x 93.30	A	45°30'	A	C	**VA0510045**
		EX	24.00 x 5.40 x 92.60	A	Stellit 45°30'	A	C	**VE0510046**
CG Today, Cargo (91->); CH125 (93->), Titan, XLR 125	1	IN	30.00 x 5.43 x 92.88	A	45°15'	A	C	**VA0510029**
		EX	25.00 x 5.43 x 92.30	A	Stellit 45°15'	A	C	**VE0510030**
CG 125 FAN (ES/KS/Cargo) Carburada e Injeção Eletrônica (2009->)	1	IN	26.99 x 4.98 x 83.61	M/N	45°30'	A	C	**VA0511477**
		EX	23.03 x 4.96 x 82.48	A/N	45°30'	A	C	**VE0511478**
CG 150 KVS (2010->)	1	IN	30.00 x 4.99 x 83.40	M/N	45°	A	C	**VA0511425**
		EX	26.00 x 4.97 x 82.60	A/N	Stellit 45°	A	C	**VE0511426**
Civic 1.6 16v. LX/ 1.7 16v. LX - D16Z	4	IN	30.00 x 5.47 x 118.50	M/CP	45°	A	C	**VA0510209**
		EX	26.00 x 5.46 x 115.95	AB/M/CP	45°15'	A	C	**VE0510210**
Honda C 100 BIZ	1	IN	23.00 x 5.00 x 65.90	M	45°30'	A	C	**VA0510126**
		EX	20.00 x 5.00 x 65.30	A/M/N	45°30'	A	C	**VE0510127**
Honda Fit 1.4L	4	IN	31.96 x 5.49 x 118.35	M/CP	45°	A	C	**VA0510263**
		EX	28.08 x 5.45 x 118.12	AB/M/CP	45°15'	A	C	**VE0510264**
Honda Fit 1.5L	4	IN	27.42 x 5.48 x 118.39	M/CP/SH	45°	A	C	**VA0510265**
		EX	23.05 x 5.45 x 117.52	AB/M/CP	45°	A	C	**VE0510266**
New Civic Motor R18A1 1.8L 16v	4	IN	31.94 x 5.49 x 116.62	M/CP/SH	45°30'	A	C	**VA0510257**
		EX	26.00 x 5.50 x 115.95	M/N	45°15'	A	C	**VE0510258**
New Civic Motor R18A6 1.8L 16V Flex	4	IN	31.95 x 4.98 x 116.70	A/M/N	45°30'	A	C	**VA5511568**
		EX	26.00 x 4.96 x 115.95	A/M/ST/N	45°15'	A	C	**VE5511569**
New Fit 1.4L 16V/ 1.5L 16V Flex (09->) - Motor L13Z3/ L15A8	4	IN	28.03 x 5.48 x 118.80	M/N	45°30'	A	C	**VA5511554**
		EX	22.96 x 5.45 x 117.43	A/M/ST/N	45°30'	A	C	**VE5511555**
NX Falcon 400	1	IN	33.00 x 5.48 x 102.60	AB/M/CP	45°	A	C	**VA0510269**
		EX	29.00 x 5.50 x 101.00	M	45°30'	A	C	**VE0510270**
Titan 150 cc Gasolina (2004->)	1	IN	30.00 x 5.00 x 83.40	CP/M	45°	A	C	**VA0510197**
		EX	26.00 x 5.00 x 82.60	A/CP/M	45°	A	C	**VE0510198**
Titan (2002->2004), Fan 125 (2009) Gasolina	1	IN	29.00 x 5.00 x 93.40	A/M	45°	A	C	**VA0510195**
		EX	24.94 x 5.00 x 92.30	A/M	45°	A	C	**VE0510196**
Turuna (->12/82)	1	IN	30.00 x 5.50 x 92.00	CP/M	45°15'	A	E	**VA0510115**
Turuna, ML125 (83->), XL125 S, DUTY	1	IN	30.00 x 5.50 x 92.30	M	45°15'	A	C	**VA0510116**
Turuna (Todas), ML125 (83->), XL 125 S, Duty	1	EX	25.00 x 5.40 x 91.40	A	Stellit 45°30'	A	C	**VE0510117**
Twister, Tornado, CB300R, NXR300, XRE300	1	IN	28.00 x 5.00 x 83.50	M/N	45°15'	A	C	**VA0510128**
		EX	23.50 x 5.00 x 83.20	A/M/N	45°45'	A	C	**VE0510129**
XLR 250	1	IN	28.00 x 5.50 x 87.40	M/N	45°15'	A	C	**VA0510130**
		EX	25.50 x 5.50 x 87.30	A/M/N	45°15'	A	C	**VE0510131**
XLX 250	1	IN	29.00 x 5.50 x 105.10	A/CP/M	45°15'	A	C	**VA0510132**
		EX	26.00 x 5.50 x 104.00	A/CP/M	45°	A	C	**VE0510133**
XLX 350	1	IN	32.00 x 5.50 x 103.40	CP/M	45°15'	A	C	**VA0510134**
		EX	29.00 x 5.50 x 101.80	A/CP/M	45°	A	C	**VE0510135**

	Nº CIL.	TIPO TYPE						
Motor Mazda FE - Empilhadeira H55 XM	4	IN	33.70 x 5.99 x 103.20	A/N	45°30'	A	C	**VA2111419**
		EX	28.95 x 5.98 x 103.95	A/N	45°	A	C	**VE2111420**

	Nº CIL.	TIPO TYPE						
Motor G4GC BETA II 2.0L 16v - Tucson/I30 (2005->)	4	IN	31.94 x 5.98 x 114.34	M/N	45°	A	C	**VA2081417**
		EX	27.45 x 5.95 x 116.78	A/N	45°	A	E	**VE2081418**
Motor GAMMA 1.6L 16V Flex - Veloster/ HB20	4	IN	31.50 x 5.47 x 93.20	M/N	45°30'	A	E	**VA2081552**
		EX	26.00 x 5.46 x 92.60	A/N	45°30'	A	E	**VE2081553**
Motor 4D55/4D56 Diesel - H100	4	IN	42.00 x 7.98 x 135.85	M/CP	44°30'	A	C	**VA2080849**
		EX	36.05 x 7.95 x 136.00	A/M/CP	45°	A	A	**VE2080848**
Motor D4BB 2.5L Diesel - H100	4	IN	42.00 x 7.97 x 132.00	M/CP/SH	45°	F	C	**VA2081301**
		EX	35.95 x 7.97 x 131.90	A/M/ST/CP	45°	F	C	**VE2081302**

	Nº CIL.	TIPO TYPE						
Motor D414, D436, D466 (N.T.), DT414, DT436, DT466 (Turbo) 210HP	6	IN	50.02 x 9.45 x 146.95	M/N	30°	F	A	**VA0380226**
		EX	40.62 x 9.43 x 147.07	A/ST/CP	45°	F	A	**VE0380227**
Motor DTA360 5.9L Turbo 150/170 HP	6	IN	43.40 x 9.45 x 144.50	A/CP	30°	F	A	**VA0380228**
		EX	36.93 x 9.42 x 144.48	A/ST/CP	45°	A	A	**VE0380229**
Motor NGD DT408 - DT466 Turbo 185HP (5/16")	6	IN	50.05 x 7.94 x 147.00	M/CP	30°	F	A	**VA0380231**
		EX	40.75 x 7.91 x 147.15	A/ST/CP	45°	A	A	**VE0380230**
Motor NGD DT466E 250HP (3/8")	6	IN	45.30 x 9.46 x 152.27	M/CP	30°	F	A	**VA0381304**
		EX	45.35 x 9.43 x 153.80	A/ST/CP	45°	F	A	**VE0381312**

	Nº CIL.	TIPO TYPE						
Daily 40.8 Turbo Motor 8140.07 - Marengo Ducato (78->83) Motor 8140.23 2500cc. TDS-TDSE	4	IN	40.90 x 7.99 x 120.90	M/CP	30°	A	A	**VA0010211**
New Daily 40.10/45.10/49.10 Motor 8140.43 2800cc. Turbo (122CV) - Renault MASTER	4	IN	40.90 x 7.99 x 120.90	M/CP	30°	A	A	**VA0010211**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**
Motor 35.10 - A45.10 - 49.10 - New Daily Turbo / Motor 2.8L Aspirado - Daily	4	IN	43.35 x 7.99 x 121.80	AB/M/CP	60°	A	C	**VA0250513**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**
FPT - Motor F1A 2.3L 16V Euro IV (2011->)	4	IN	30.00 x 5.98 x 120.39	M/LCP	45°	C	C	**VA0011475**
		EX	30.00 x 5.98 x 120.40					**VE0011616***
FPT - Motor F1C 3.0L 16v - Daily (2010->)	4	IN	32.38 x 5.99 x 119.94	M/CP	60°	C	C	**VA0011467**
		EX	32.33 x 5.98 x 119.96	AB/M/CP	60°	C	C	**VE0011468**
Cursor 13 12.8L 24v - Stralis/ Traker (2005->)	6	IN	46.96 x 9.98 x 199.23	M/CP	60°30'	A	C	**VA0011469**
		EX	45.91 x 9.98 x 198.10	A/M/CP	45°30'	A	C	**VE0011470**

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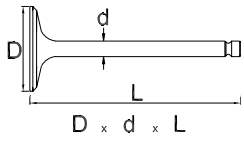
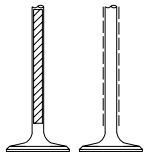
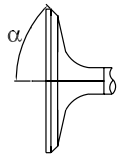
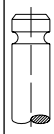
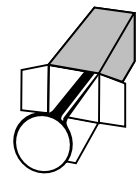
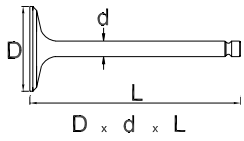
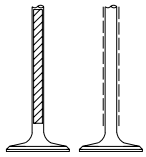
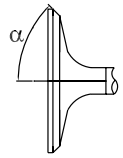
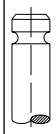
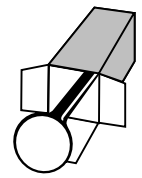
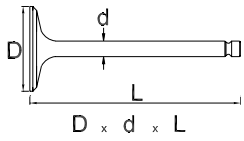
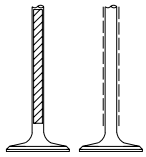
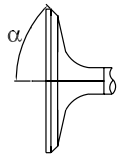
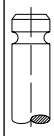
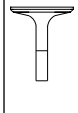
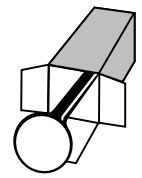
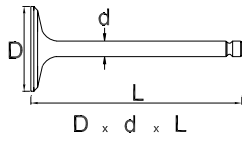
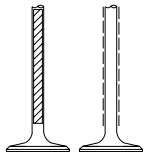
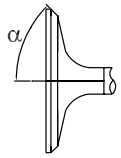
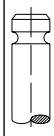
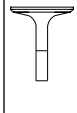
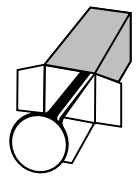
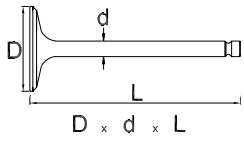
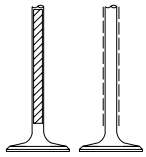
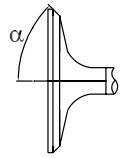
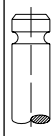
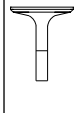
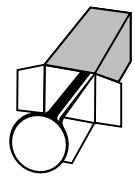
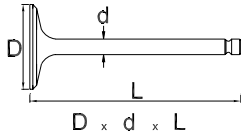
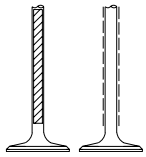
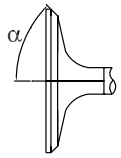
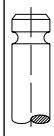
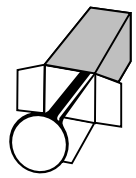
	Nº CIL.	TIPO TYPE						
Motor 1.4L 16V Gasolina -> J3	4	IN	30.57 x 4.97 x 89.89	A/N	45°30'	A	C	**VA3551556**
		EX	25.56 x 4.96 x 90.93	AB/N	45°15'	A	C	**VE3551557**

	Nº CIL.	TIPO TYPE						
Motor 2.6L (1964->) - Rural	6	EX	35.88 x 8.63 x 117.10	A	45°	E	E	**VE0230118**

	Nº CIL.	TIPO TYPE						
Trator - Motor 4-039 DJ01/02-TJ01, 6-059 DJ01-TJ01/02/03, 6-068 DJ01, MUN 4D/4T/6O/6T	4/6	IN	46.58 x 7.87 x 134.07	M/CP	29°15'	A	A	**VA0430546**
		IN	46.58 x 8.25 x 134.07	M/CP	29°15'	A	A	**VA0430546 0,381**
		EX	42.48 x 7.87 x 133.46	A/CP	29°15'	A	A	**VE0430542**
		EX	42.48 x 8.24 x 133.46	A/CP	29°15'	A	A	**VE0430542 0,381**

	Nº CIL.	TIPO TYPE						
Besta 2.2L Magma e Huricane - Sportage 2.0L - Bongo 2.0L Motor RF 2.2L / Motor R2 Diesel	4	IN	41.00 x 7.98 x 107.00	M/CP	45°	A	A	**VA2110229**
		EX	36.00 x 7.97 x 106.95	A/CP	45°15'	A	A	**VE2110249**
Besta 2.7L, Besta K 2.7L, Bongo - Motor FRA Diesel	4	IN	41.10 x 8.97 x 114.65	A/M/CP	44°52'	A	C	**VA2110185**
		EX	35.00 x 8.96 x 114.60	A/M/CP	29°30'	A	C	**VE2110186**
Besta GS 3.0L	4	IN	44.05 x 8.48 x 112.70	M/CP	45°	A	A	**VA2110187**
		EX	37.35 x 8.45 x 112.93	A/M/CP	45°	A	A	**VE2110188**
Motor G4GC BETA II 2.0L 16v -Sportage (2005->)	4	IN	31.94 x 5.98 x 114.34	M/N	45°	A	C	**VA2081417**
		EX	27.45 x 5.95 x 116.78	A/N	45°	A	E	**VE2081418**
Motor GAMMA 1.6L 16V Flex - Cerato/ SOUL	4	IN	31.50 x 5.47 x 93.20	M/N	45°30'	A	E	**VA2081552**
		EX	26.00 x 5.46 x 92.60	A/N	45°30'	A	E	**VE2081553**
Motor Mazda FE - Kia Sportage (1990-2002)	4	IN	33.70 x 5.99 x 103.20	A/N	45°30'	A	C	**VA2111419**
		EX	28.95 x 5.98 x 103.95	A/N	45°	A	C	**VE2111420**

	Nº CIL.	TIPO TYPE						
Motor OM 014A - Sprinter 2.5L Diesel	4	IN	38.95 x 7.97 x 116.38	A/M/CP	30°	C	A	**VA0570250**
		EX	36.50 x 7.97 x 116.38	A/M/CP	45°	C	A	**VE0570230**
Motor OM352A (Turbo)/ OM364A, OM366A (Turbo)/ OM364LA, OM366LA (Turbo com Aftercooler)	6	IN	41.98 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480006**
		IN	41.98 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480006+04**
		IN	41.98 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480006+08**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480005**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480005+04**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480005+08**
Motor OM421A, OM447A, OM449A (Turbo), OM421LA, OM447LA, OM449LA - 1633, 1938 (Turbo com Intercooler)	5/6	IN	58.85 x 11.94 x 142.50	AB/M/CP	30°	E	A	**VA0480056**
		EX	51.00 x 11.93 x 142.50	AB/M/CP	Stellit 45°	E	C	**VE0480055**
Motor OM314 / OM352 (Aspirado)/ OM352A (Turbo) - Cabeçote Versão Antiga (Bloco Normal)	6	IN	43.98 x 8.94 x 140.45	CP/M/ST	Stellit 45°	E	A	**VA0480004**
		EX	35.98 x 9.93 x 140.45	CP/M/ST	Stellit 45°	E	A	**VE0480003**
Motor OM355 (Aspirado) - L1521, OH1522	5/6	IN	41.98 x 8.95 x 129.80	CP/M	45°	E	A	**VA0480048**
		IN	41.98 x 8.95 x 129.80	CP/M	45°	E	A	**VA0480048+04**
		IN	41.98 x 8.95 x 129.80	CP/M	45°	E	A	**VA0480048+08**
		EX	36.98 x 8.94 x 165.35	A/CP	Stellit 45°	E	A	**VE0480047**
		EX	36.98 x 8.94 x 165.35	A/CP	Stellit 45°	E	A	**VE0480047+04**
		EX	36.98 x 8.94 x 165.35	A/CP	Stellit 45°	E	A	**VE0480047+08**
Motor OM364/366 (Aspirado)	6	IN	42.78 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480096**
		IN	42.78 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480096+04**
		IN	42.78 x 8.94 x 140.45	AB/M/CP	60°	E	A	**VA0480096+08**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480097**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480097+04**
		EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480097+08**
Motor OM352 O Turbo /314 Turbo /352A Turbo /352 Turbo	6	EX	35.98 x 9.93 x 140.45	AB/M/CP	45°	E	A	**VE0480097**
OM 346/951, OM355/5A, OM355/6 A Turbo	6	IN	42.00 x 8.94 x 130.60	M/ST/CP	Stellit 29°55'	E	C	**VA0480091**
		EX	37.00 x 8.93 x 165.83	AB/M/CP	Stellit 29°55'	E	A	**VE0480090**
OM501LA 24v. V6 - OM502LA 32v. V8 - OM457LA (Chassi 9BM696080)	6/8	IN	45.60 x 8.94 x 144.85	AB/M/CP	30°	A	A	**VA0480193**
		EX	41.10 x 8.93 x 144.90	AB/M/CP	45°	A	A	**VE0480194**
OM601, OM611, OM612 - Automóvel C200,C220, Sprinter 2.2L 16v., C270 2.7L 20v. - Motor 311/313/413	4/5	IN	30.20 x 6.97 x 104.00	M/N	45°	A	C	**VA0480233**
		EX	28.40 x 6.96 x 104.00	A/N	45°	A	C	**VE0480251**
OM355/5 A (Turbo), OM355/5 LA, OM355/6 LA (Turbo com Intercooler)	5/6	IN	42.03 x 8.94 x 129.95	CP/M/ST	Stellit 60°	E	A	**VA0480080**
		IN	42.03 x 8.94 x 129.95	CP/M/ST	Stellit 60°	E	A	**VA0480080+04**
		IN	42.03 x 8.94 x 129.95	CP/M/ST	Stellit 60°	E	A	**VA0480080+08**
		EX	36.98 x 8.94 x 165.10	AB/M/CP	60°	E	A	**VE0480079**
		EX	36.98 x 8.94 x 165.10	AB/M/CP	60°	E	A	**VE0480079+04**
		EX	36.98 x 8.94 x 165.10	AB/M/CP	60°	E	A	**VE0480079+08**
OM364A, OM366A (Turbo), OM364LA; OM366LA (Turbo com Aftercooler) - (07/95->)	6	IN	41.98 x 8.94 x 140.50	AB/M/CP	19°55'	E	A	**VA0480007**
OM904LA, OM906LA, OM924LA, OM926LA Eletrônico	4/6	IN	34.00 x 7.95 x 128.75	AB/M/CP	20°	A	A	**VA0480244**
		EX	38.00 x 7.94 x 152.55	AB/M/CP	45°15'	A	A	**VE0480245**

	Nº CIL.	TIPO TYPE						
Motor OM651LA 2.2L-> Sprinter 311, 415, 515 CDI (2012->)	4	IN	28.50 x 5.97 x 108.90	M/CP	45°	C	A	**VA0481563**
		EX	24.60 x 5.96 x 109.20	AB/M/CP	45°	C	A	**VE0481564**
Motor OM 457 - AXOR 2044/2544/2644 (chassi 9BM958...) // Motor OM460	6	IN	45.50 x 8.94 x 144.85	M/CP	30°	A	C	**VA0481436**
		EX	42.10 x 8.93 x 144.85	AB/M/CP	35°	A	C	**VE0481437**
Top Brake OM 447	6	IN - EX	17.00 x 7.99 x 96.70	AB	45°	A	B	**VC0481565**
Top Brake OM 457 LA / OM 460 LA	6	IN - EX	17.00 x 8.00 x 86.80	AB/CP	45°	A	C	**VC0481345**
Top Brake OM 904/906	4/6	IN - EX	15.20 x 5.97 x 81.60	A/CP	20°	A	A	**VC0481344**

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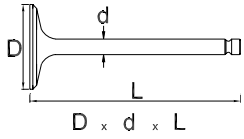
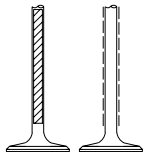
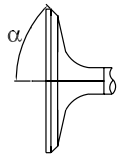
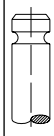
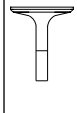
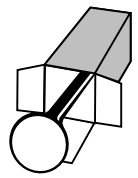
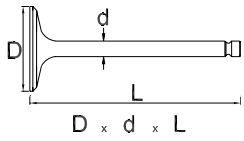
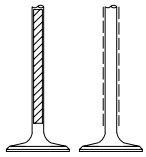
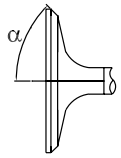
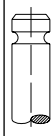
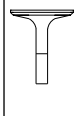
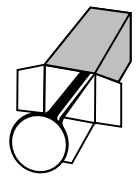
	Nº CIL.	TIPO TYPE	D x d x L		α			
Galant Motor 4G63 1997cc. - 4G64 2350cc. 16v.	4	IN	32.90 x 5.96 x 112.52	M/CP	45°	A	C	**VA1950261**
		EX	29.00 x 5.96 x 114.11	A/M/N	45°15'	A	C	**VE1950262**
L200 HPE/ SPORT 2.5L 8V	4	IN	40.00 x 8.00 x 130.00	MN	45°15'	A	E	**VA1950254**
		EX	34.00 x 8.00 x 130.00	A/M/CP	45°15'	A	C	**VE1950238**
L200 GL/GLS, L300, Pajero - Motor 4D56 2.5L Aspirado e Turbo Diesel	4	IN	39.95 x 7.97 x 130.10	A/M/N	45°	A	A	**VA1950223**
		EX	34.00 x 7.95 x 130.00	A/M/N	45°15'	A	A	**VE1950224**
Motor 4G64	4	IN	46.00 x 7.96 x 106.83	M/CP	44°45'	A	C	**VA1950825**
		EX	37.90 x 7.94 x 105.03	A/CP	45°	A	E	**VE1950826**
Motor 4G94 2.0L - Pajero TR4	4	IN	30.00 x 5.97 x 110.15	M/N	45°15'	A	C	**VA1951571**
		EX	27.00 x 5.96 x 113.70	A/M/N	45°15'	A	C	**VE1951572**
Pajero - Motor 4M40 2800cc Turbo diesel	4	IN	41.00 x 7.97 x 108.70	M/CP	45°15'	A	A	**VA1950247**
		EX	35.00 x 7.94 x 108.35	A/CP	44°15'	A	A	**VE1950246**
Pajero 2972cc/3496cc 24v. 6G74 (1999->2004)	4	IN	32.90 x 5.96 x 112.52	M/CP	45°	A	C	**VA1950261**
		EX	29.00 x 5.96 x 114.11	A/M/N	45°15'	A	C	**VE1950262**
Pajero Full 3.2L - Motor 4M41 Diesel	4	IN	33.00 x 7.00 x 106.00	A/N	45°15'	A	C	**VA1950236**
		EX	31.00 x 7.00 x 105.00	A/N	45°15'	A	C	**VE1950237**
Pajero Galant 2972cc 12V/ 6G72 (1988->2005)	6	IN	43.00 x 8.00 x 103.00	A/M/CP	45°15'	A	C	**VA1950234**
		EX	35.00 x 8.00 x 103.00	A/CS	45°15'	A	C	**VE1950235**

	Nº CIL.	TIPO TYPE						
Motor D225/ D226/ D229/ D229EC/ D327 (Todos exceto VW 12140/14140)/ TD229T (Fiat FE105B); Ford Série, Ford Exportação	3/4/6	IN	40.98 x 8.96 x 116.95	CP/M	44°30'	C	A	**VA0130011**
		EX	37.98 x 8.96 x 116.95	CP/M	44°45'	C	A	**VE0130010**
Motor Sprint 4.07T, 4.07TCA, 4.07 TCE, 6.07T, 6.07TCA, 6.07 TCE 18v.	4/6	IN	33.00 x 6.96 x 105.10	M/CP	30°	C	A	**VA0130277**
		EX	40.00 x 6.97 x 105.10	A/M/ST/CP	45°	C	A	**VE0130278**
Motor D229EC, TD-225, TD-229 (Turbo)	4/6	IN	42.00 x 8.97 x 117.15	CP/M	30°	C	A	**VA0130099**
		EX	38.00 x 9.00 x 117.00	A/M/ST/CP	45°	C	A	**VE0130098**
Motor TD-6.10, 6.10T, 6.10TCA Série 10	6	IN	45.00 x 8.96 x 126.00	CP/M	60°	C	C	**VA0130101**
		EX	41.00 x 8.96 x 126.00	A/M/ST/CP	45°	C	A	**VE0130100**
X12 Motor Acteon 4.12 TCE/6.12TCE Turbo (150CV; 180CV; 190CV; 210CV; 230CV; 260CV)	4/6	EX	41.00 x 8.96 x 126.00	AB/M/CP/SH	45°	C	C	**VE0130239**

	Nº CIL.	TIPO TYPE	D x d x L					
H20	4	IN	35.10 x 6.97 x 109.75	M/CP	44°30'	E	C	**VA0030331**
		EX	30.10 x 6.95 x 109.20	A/CP	44°30'	E	C	**VE0031124**
March Motor 1.0 16V HR10DE Flex	4	IN	25.92 x 5.47 x 110.75	M/N	45°	C	A	**VA0181606 (VA0180427)**
		EX	22.16 x 5.46 x 112.65	A/M/N	45°	C	A	**VE0181607 (VE0180438)**
March/ Versa Motor HR16DE 1.6L Flex	4	IN	31.70 x 4.97 x 101.64	M/N	45°	A	C	**VA0031608**
		EX	25.36 x 4.96 x 102.43	M/N	45°	A	C	**VE0031609**
Motor MR20 2.0L 16V Flex - Sentra // Motor MR18DE 1.8L - Tiida	4	IN	33.96 x 5.46 x 106.30	M/ST/N	45°	A	C	**VA0031570**
		EX	27.80 x 5.45 x 105.30	A/N	45°	A	C	**VE0031605**
Motor YD25DTI 2.5L 16V Diesel - Frontier	4	IN	28.20 x 5.97 x 106.70	M/N	45°7'	A	E	**VA0031506**
		EX	26.25 x 5.95 x 106.01	A/M/N	45°7'	A	E	**VE0031507**

	Nº CIL.	TIPO TYPE						
Motor 3.152 / 4.203 - Injeção Indireta	3/4/6	IN	38.90 x 7.90 x 114.30	M	45°	A	C	**VA0570035**
		EX	33.40 x 7.90 x 114.30	M	45°	A	C	**VE0570036**
Motor 6.357 - Injeção Indireta	4/6	IN	46.89 x 9.47 x 132.40	CS	45°	A	A	**VA0570033**
		EX	40.50 x 9.45 x 132.36	M	45°15'	A	C	**VE0570034**
Motor 6-354 Fase 2, T6-354 Fase 2 (Turbo)	6	IN	44.20 x 9.47 x 122.80	CP/M	45°	A	A	**VA0570024**
		EX	36.68 x 9.45 x 123.20	A/CP	45°	A	A	**VE0570023**
Motor 6-358 Injeção Direta V8-510-540 Diesel	6/8	IN	45.22 x 9.47 x 139.45	A/CP	45°	A	A	**VA0570111**
		EX	38.88 x 9.46 x 139.75	A/ST/CP	45°	A	A	**VE0570112**
Motor D 4.203 / 3.152 Injeção Direta	4	IN	38.90 x 7.90 x 114.15	M	45°	A	A	**VA0570032**
		EX	33.30 x 7.90 x 114.30	M	45°	A	A	**VE0570031**
Motor HS - TDI 3.0L 16V - Ranger/ Troller	4	IN	32.00 x 5.94 x 114.19	M/CP	45°	C	C	**VA0570231**
		EX	29.00 x 5.93 x 114.20	AB/M/CP	45°	C	C	**VE0570232**
Motor HS/TDS 2.5L e 2.8L - Sprinter, Land Rover Jeep Defender, S10, F1000, Ranger, Troller	4	IN	38.95 x 7.97 x 116.38	A/M/CP	30°	C	A	**VA0570250**
		EX	36.50 x 7.97 x 116.38	A/M/CP	45°	C	A	**VE0570230**
Motor HS/HST 2.2L - S10, Blazer, Silverado, F1000, Ranger, Sprinter, Land Rover 2.8L	4	IN	38.95 x 7.97 x 116.38	A/M/CP	30°	C	A	**VA0570250**
		EX	36.50 x 7.97 x 116.38	A/M/CP	45°	C	A	**VE0570230**
Motor P3, P3-144, P4, P6, 3-152, 4-203, 6-305	3/4/6	IN	38.90 x 7.90 x 114.30	M	45°	A	C	**VA0570035**
		IN	38.90 x 7.90 x 114.30	M	45°	A	C	**VA0570035+04**
		IN	38.90 x 7.90 x 114.30	M	45°	A	C	**VA0570035+08**
Motor Perkins T6.354 - Fase 3/4 Diesel	6	IN	44.20 x 9.47 x 122.80	CP/M	45°	A	A	**VA0570024**
Motor Q20B4.236/ 4.248/ Q20B6.354 Aspirado	4	IN	44.18 x 9.47 x 122.80	CP/M	45°	C	A	**VA0570038**
		EX	36.57 x 9.46 x 123.20	A/CP/M	45°	C	A	**VE0570037**
Motor Q20B43 Up- Grade, S4 Aspirado	4	IN	44.22 x 9.47 x 122.72	CP/M	45°	C	A	**VA0570123**
		EX	38.20 x 9.47 x 123.10	A/M/ST/CP	45°	C	C	**VE0570122**
S4T / P4000/T - S4T Plus Chevrolet D20 Aspirada/Turbo 4.0L	4	IN	44.20 x 9.48 x 122.50	A/M/CP	30°	C	A	**VA0570657**
		EX	38.20 x 9.47 x 123.10	A/M/ST/CP	45°	C	C	**VE0570122**
3054 - Séries 4ZK / 6FK / CAT 4016C	6	IN	45.00 x 9.46 x 122.87	A/M/CP	60°	A	C	**VA0571369**
		EX	37.39 x 9.44 x 123.31	A/M/CP	45°	A	C	**VE0570649**

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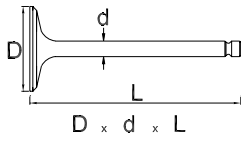
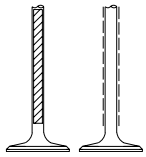
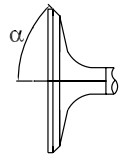
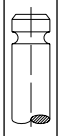
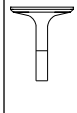
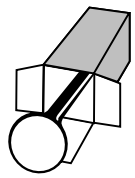
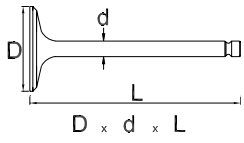
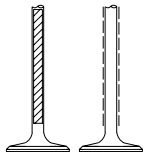
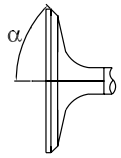
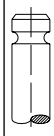
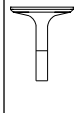
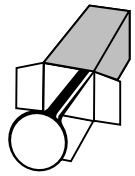
	Nº CIL.	TIPO TYPE						
106 Motor TU9K, TU9M - 205 Motor TU9A 954cc.	4	IN	34.70 x 6.97 x 112.77	M	30°	A	C	**VA0440572**
		EX	27.80 x 6.97 x 112.60	A/M/CP	45°	A	C	**VE0440593**
106, 205 GT/XS, 206, 306, 405, Partner Motor TU3 1400cc.	4	EX	29.15 x 6.98 x 112.57	M/CP	45°	A	C	**VE0440588**
106, 205 Motor TU3F-J2K 1294/1360cc.-Motor TU5J2 1360cc. - 106, 206, 306 Motor TU5JP 1587cc.	4	IN	39.30 x 6.97 x 111.50	M/SH	30°	C	C	**VA0440575**
		EX	31.35 x 6.97 x 111.75	A/M/CP	45°	C	C	**VE0440596**
206 Motor TU5JP4 1600cc. 16v. Gasolina	4	IN	31.30 x 5.98 x 103.80	M	45°	A	C	**VA0440578**
		EX	24.50 x 5.96 x 104.40	A/M/CP	45°	A	E	**VE0440598**
206, 307 Motor TU3JP 1400cc. 8v. Flex	4	IN	36.66 x 6.98 x 112.70	M/CP	45°	A	C	**VA0441091**
		EX	29.15 x 6.98 x 112.57	M/CP	45°	A	C	**VE0440588**
206, 307, 406 Motor EW10J4 2000cc. 16v.	4	IN	33.20 x 5.97 x 106.20	M/SH	44°30'	A	C	**VA0440579**
		EX	29.07 x 5.96 x 103.60	A/M/ST/CP	44°30'	A	A	**VE0441603 (VE0440599)**
306, 405 Motor XU10J4 2000cc. 16v. Injeção	4	IN	34.60 x 6.98 x 106.20	M	44°45'	C	A	**VA0440569**
		EX	29.58 x 6.98 x 104.95	A/M/CP	45°	C	A	**VE0440301**
306, 405 XU10J2/XU102C 8v. Injeção	4	IN	42.55 x 7.98 x 108.80	M/CP/SH	44°30'	C	A	**VA0440557**
		EX	34.55 x 7.96 x 108.40	A/M/CP	44°30'	C	A	**VE0440589**
306XR/XT/Break, 405 Motor XU7JP4 1800cc. 16v.	4	IN	34.60 x 5.98 x 106.40	M/SH	44°30'	A	A	**VA0440561**
		EX	29.55 x 5.98 x 105.75	A/M/ST/CP	44°30'	A	A	**VE0440297**
307 Motor EW10A 2.0L 16V Flex	4	IN	33.20 x 5.97 x 106.20	M/SH	44°30'	A	C	**VA0440579**
		EX	29.07 x 5.96 x 103.60	A/M/ST/CP	44°30'	A	A	**VE0441603 (VE0440599)**
404 Motor Indenor Diesel XD488	4	EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583**
		EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583+04**
		EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583+08**
405 GR, SR, GL, GE XU5/XU9/ XU5JP - 205 CTI, GTI XU5M/ XU9JA 1580/1905 cc. - 305 GT XU92C 1905 cc.	4	IN	41.58 x 7.97 x 108.74	M/SH	44°50'	A	A	**VA0440551**
		EX	34.48 x 7.97 x 108.32	A/M/CP	44°22'	A	A	**VE0440585**
406 Motor XU7JP4 1800cc 16v. Gasolina // 406, 306, 605 Motor XU10JUR 2000cc. 16v. Gasolina	4	IN	34.60 x 6.98 x 106.40	M/SH	44°30'	C	C	**VA0440571**
		EX	29.50 x 6.98 x 105.77	A/M/CP	44°30'	C	C	**VE0440590**
406, Partner Motor XU7JB 1760cc. - 504 TI/L/GL, 405 GRI/SRI Motor XU9J2 1900cc.	4	IN	41.60 x 7.98 x 105.17	M/SH	44°50'	A	A	**VA0441040**
		EX	34.50 x 7.97 x 104.75	A/M/ST/CP	44°22'	A	A	**VE0441382**
504 Motor 2300cc. Indenor XD2 Diesel	4	IN	40.48 x 8.48 x 116.20	M	30°	A	A	**VA0440566**
		IN	40.48 x 8.48 x 116.20	M	30°	A	A	**VA0440566+04**
		IN	40.48 x 8.48 x 116.20	M	30°	A	A	**VA0440566+08**
		EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583**
		EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583+04**
		EX	33.48 x 8.46 x 116.20	A/CP	45°	A	A	**VE0440583+08**
504 XD2, 505 XD3 2500cc. Diesel (Aspirado e Turbo)	4	IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567**
		IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567+04**
		IN	42.38 x 8.48 x 115.95	M/CP	45°	A	E	**VA0440567+08**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581+04**
		EX	35.38 x 8.46 x 116.15	A/CP	45°	A	A	**VE0440581+08**
Motor Iveco 2800cc. - Boxer Turbo Diesel	4	IN	40.90 x 7.99 x 120.90	M/CP	30°	A	A	**VA0010211**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**
Motor 2800cc. - Boxer Aspirada	4	IN	43.35 x 7.99 x 121.80	AB/M/CP	60°	A	C	**VA0250513**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**

	Nº CIL.	TIPO TYPE						
Clio Motor E7J 1400cc. Francês - Megane, Kangoo Motor K7M 1600cc.	4	IN	37.50 x 6.99 x 107.75	M	30°	A	A	**VA0180393**
		EX	33.55 x 6.97 x 107.70	A/M/ST	45°	A	A	**VE0180310**
Clio, Twingo Motor D4D 1000cc. 16v.	4	IN	25.92 x 5.47 x 110.75	M/N	45°	C	A	**VA0181606 (VA0180427)**
		EX	22.16 x 5.46 x 112.65	A/M/N	45°	C	A	**VE0181607 (VE0180438)**
Clio/Scenic/Megane - K4M 1.6L 16V Gasolina	4	IN	32.70 x 5.40 x 109.30	M	45°	A	C	**VA0180124**
		EX	27.90 x 5.40 x 107.60	A/M	45°	C	A	**VE0180125**
Laguna, Megane Motor F3P 1800cc. / F3R 2000cc. Injeção	4	IN	40.00 x 7.98 x 115.50	M	45°	A	A	**VA0180395**
		EX	32.70 x 7.97 x 115.35	A/ST/CP	45°	A	A	**VE0180396**
Motor 2.0L 16V Flex - Fluence	4	IN	33.92 x 5.47 x 106.23	M/N	44°30'	A	C	**VA0031604**
		EX	27.80 x 5.46 x 105.25	A/N/ST	44°30'	A	C	**VE0031605**
Motor 2800cc. - Master Aspirada	4	IN	43.35 x 7.99 x 121.80	AB/M/CP	60°	A	C	**VA0250513**
		EX	35.90 x 7.99 x 121.95	A/M/CP	44°30'	A	A	**VE0010212**
Motor 2.5L Dci 16V - MASTER // Trafic II, Laguna, Laguna Grandtour 2.2 e 2.5L 16V	4	IN	30.60 x 5.96 x 123.20	M	45°15'	C	C	**VA0181483**
		EX	29.50 x 5.96 x 123.00	A/M	45°7'	C	C	**VE0181484**
R19 1800cc.	4	IN	40.18 x 7.98 x 107.15	M	44°45'	A	A	**VA0180423**
		EX	32.48 x 7.97 x 106.90	A/M/ST	45°	A	A	**VE0180424**
R9, R11, R19, Clio Motor 1600cc., Trafic 1.400cc.	4	IN	34.08 x 6.98 x 90.68	M/CP	45°	B	C	**VA0180389**
		EX	28.90 x 6.97 x 88.90	A/M/ST/CP	45°15'	B	C	**VE0180305**
Scenic Motor F4R 2000cc. 16v.	4	IN	33.50 x 5.47 x 110.03	M	45°	A	C	**VA0180415**
		EX	29.00 x 5.45 x 108.90	A/M	44°30'	A	C	**VE0180416**
Twingo, Clio, Kangoo Motor D7F 1100cc.	4	IN	32.90 x 5.97 x 106.85	M/SH	30°	A	A	**VA0180421**
		EX	29.85 x 5.96 x 106.70	AB/M	45°	A	A	**VE0180422**

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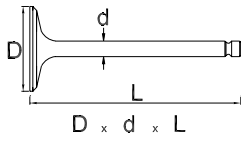
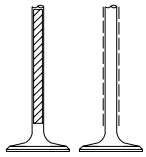
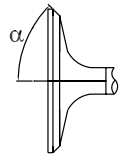
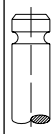
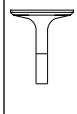
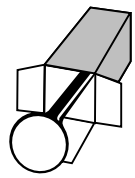
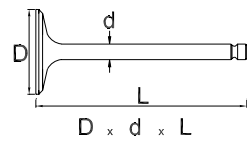
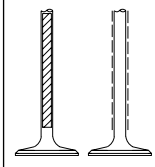
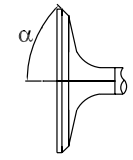
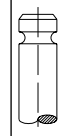
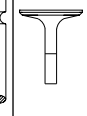
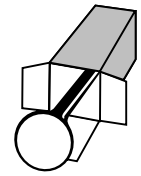
	Nº CIL.	TIPO TYPE						
DC9 (5cil.), DC11, DC12, DC14, DC16 (6cil.) Euro 2, 3, 4 -DT12 Euro 3, 4 -Diesel	5/6	IN	44.00 x 9.94 x 171.09	X/M/CP	19° 30'	A	A	**VA0760225**
		EX	41.00 x 9.93 x 171.50	A/CP/M/ST	Stellit 45°30'	A	A	**VE0760102**
Motor D11 A05/A06/B03/B05/ B08/L03/M01, DS11 A05/A06/ L05/M01, DS14 A01/A03TX/ LB05/LB08, DSI14 M01 (->89)	6/8	EX	45.00 x 10.90 x 162.50	AN/ST/CP	Stellit 44°30'	G	A	**VE0760058**
Motor D11 (89->)	6	EX	44.60 x 10.90 x 162.50	A/CP/ST	Stellit 45°30'	G	A	**VE0760012**
Motor D11 B05, L03 - L111, B111	6/8	EX	45.00 x 10.90 x 162.50	AN/ST/CP	Stellit 44°30'	G	A	**VE0760058**
Motor DC11 (new), DN12, DS12, DSC12, Modelo 104-124 Série 4	6	IN	44.00 x 10.00 x 171.40	A/CP/M	70°30'	A	A	**VA0760103**
		EX	41.00 x 9.93 x 171.50	A/CP/M/ST	Stellit 45°30'	A	A	**VE0760102**
Motor DN11, DS11, DSC11, DN14, DS14, DSC14 - Modelos 111, 112, 113 Industrial	6	IN	54.00 x 11.00 x 162.50	A/CP/CS	70°30'	G	A	**VA0760013**
		EX	44.60 x 10.90 x 162.50	A/CP/ST	Stellit 45°30'	G	A	**VE0760012**
Motor DN11, DS11, L111, R112, T112, BR116, K112 (76->89)	6/8	EX	45.00 x 10.90 x 162.50	AN/ST/CP	Stellit 44°30'	G	A	**VE0760058**
Motor DN11, DS11, L111, R112, T112, K112, 113 (90->)	6	EX	44.60 x 10.90 x 162.50	A/CP/ST	Stellit 45°30'	G	A	**VE0760012**
Motor DS9, DSC9 9.0L Turbo	6	IN	51.00 x 11.00 x 162.48	A/M	70°30'	A	A	**VA0760215**
		EX	44.00 x 11.00 x 162.48	A	45°30'	A	A	**VE0760216**
Motor DC- 9.12 270cv / DC-9.11 310cv / DC-11.08 340cv / DC-12 (08/2009 ->) / Série 5 DL5 Euro 5	5/6	IN	44.00 x 9.95 x 171.40	M/X/CP	Stellit 70°30'	D	C	**VA0761423**
		EX	41.00 x 9.95 x 171.52	A/M/CP	Stellit 45°30'	D	C	**VE0761424**

	Nº CIL.	TIPO TYPE						
Bandeirante, Land Cruiser - Motor 14B 3400cc. Diesel	4	IN	45.90 x 8.97 x 126.50	M/CP	45°	A	A	**VA0630259**
		EX	38.47 x 8.97 x 126.46	A/M/CP	44°30'	A	A	**VE0630260**
Corolla 1.8 16v (2002->)	4	IN	32.00 x 5.50 x 88.52	M	45°30'	A	E	**VA0630207**
		EX	27.45 x 5.50 x 88.68	A	45°30'	A	E	**VE0630208**
Corolla 1.8 16v (1998->2001)	4	IN	31.00 x 6.00 x 87.50	M	45°30'	A	E	**VA0630205**
		EX	24.50 x 6.00 x 87.80	A/ST	45°30'	A	E	**VE0630206**
Corolla Motor 3ZRFBE 2.0L 16V Flex (03/2010->)	4	IN	32.00 x 5.48 x 109.30	A/ST/N	45°30'	A	E	**VA0631550**
		EX	27.54 x 5.47 x 108.30	A/ST/N	45°30'	A	E	**VE0631551**
Empilhadeira 4Y	4	IN	40.00 x 7.98 x 108.26	M/N	45°30'	A	C	**VA0631405**
		EX	36.00 x 7.98 x 108.50	A/M/N	45°30'	A	C	**VE0631406**
Hilux 2800cc. - Motor 3L (1988->)	4	IN	43.00 x 8.00 x 104.00	M/N	45°35'	A	C	**VA0630240**
		EX	36.00 x 7.97 x 103.30	A/CP	45°20'	A	A	**VE0630241**
Hilux - Motor 2L 2000cc., 2200cc., 2500cc.	4	EX	36.00 x 7.97 x 103.30	A/CP	45°20'	A	A	**VE0630241**
Hilux D4D - Motor 1KD-FTV 3.0L 16V Diesel (2005 ->)	4	IN	42.50 x 7.99 x 103.60	M/N	45°15'	A	C	**VA0630213**
		EX	37.00 x 7.96 x 103.20	A/N	45°15'	A	C	**VE0630214**
Hilux - Motor 2KD-FTV 2.5L Diesel	4	IN	30.50 x 5.97 x 105.60	M/N	45°30'	A	E	**VA0631453**
		EX	26.50 x 5.97 x 105.70	A/N	45°30'	A	E	**VE0631454**

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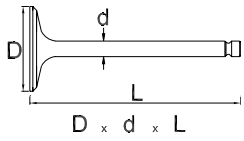
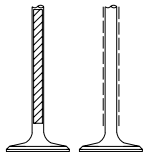
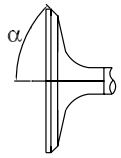
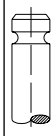
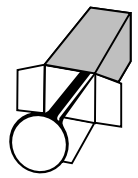
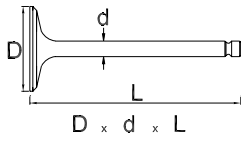
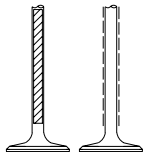
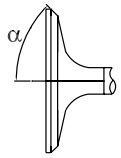
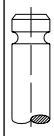
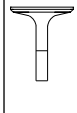
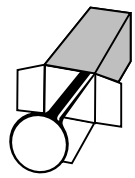
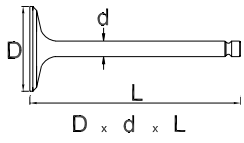
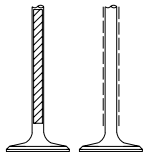
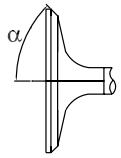
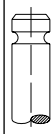
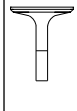
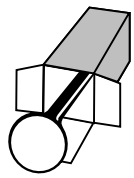
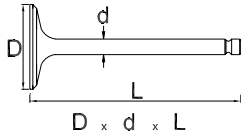
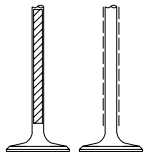
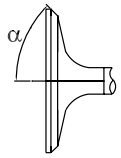
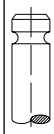
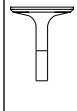
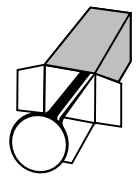
	Nº CIL.	TIPO TYPE						
Motor 320/420/620 Aspirado e Turbo - Trator 700/800	3/4/6	IN	48.00 x 8.97 x 151.60	M/SH	35°	A	C	**VA0310273**
		EX	40.93 x 8.92 x 152.76	A/M/CP	45°	A	C	**VE0310274**

	Nº CIL.	TIPO TYPE						
Amarok 2.0L 16v TDI e BI-TDI (CDBA / CDCA)	4	IN	28.00 x 5.98 x 99.50	M	45°	C	A	**VA0701558**
		EX	26.00 x 5.97 x 99.16	AB/M	45°	C	A	**VE0701559**
1.8L 20v. - Golf GTI, Bora, Passat, AUDI A3 Aspirados e Turbinados	4	IN	27.00 x 5.97 x 105.00	M/ST	45°15'	C	C	**VA0700242**
		EX	29.90 x 5.95 x 104.00	AB/M/ST/CP	45°15'	C	A	**VE0700243**
Bora, Golf, New Beetle, Passat Motor ATU, AWF, AWG, ADC 2000cc. Injeção	4	IN	39.50 x 6.98 x 91.80	M/SH	45°	C	C	**VA0700089**
		EX	32.90 x 6.97 x 91.10	A/M	45°	C	A	**VE0700190**
Caminhão 12.170BT, 16.170BT Motor Cummins 5.9L Turbo com Intercooler	4/6	IN	44.98 x 7.97 x 129.05	M/CP	30°	A	A	**VA0210151**
		EX	42.03 x 7.96 x 128.96	A/CP	45°	A	A	**VE0210150**
Caminhão 14210, 16210, 16170 Aspirado - 24250, 35300 Turbo com Intercooler Motor Cummins 8.3L	6	IN	52.00 x 9.49 x 151.18	M/CP	60°	A	A	**VA0210153**
		EX	46.06 x 9.49 x 150.94	A/M/CP	45°	A	A	**VE0210152**
Caminhão e Ônibus 7.100, 8.100, 8.140, 12.140 Motor MWM 4.10 Aspirado e Turbo	6	IN	45.00 x 8.96 x 126.00	CP/M	60°	C	C	**VA0130101**
		EX	41.00 x 8.96 x 126.00	A/M/ST/CP	45°	C	A	**VE0130100**
1.6L 8v RSH EA111 (Gasolina) - Golf, Fox, Space Fox, Cross Fox, Polo Hatch/Sedan, Audi A3	4	IN	34.50 x 5.97 x 99.18	M/SH	45°	C	A	**VA0700252**
		EX	28.00 x 5.95 x 99.18	A/M	45°	C	A	**VE0700253**
Gol, Parati Motor 1.0L 16v. AT	4	IN	22.50 x 5.97 x 98.70	M/SH	44°50'	C	A	**VA0700009**
		EX	19.97 x 5.95 x 98.15	A/M	Stellit 44°50'	C	A	**VE0700008**
Gol, Parati, Saveiro, Santana AP1.6/1.8/2.0L (01/98->), Golf 1.8/2.0L (01/96->)	4	IN	37.90 x 6.98 x 91.85	M/SH	45°	C	C	**VA0700088**
		EX	32.90 x 6.96 x 91.15	A/M/ST	Stellit 45°	C	A	**VE0700087**
Gol, Parati, Saveiro, Santana AP2.0L (01/98->), Golf 2.0L (01/96->)	4	IN	39.50 x 6.98 x 91.80	M/SH	45°	C	C	**VA0700089**
Gol Power, Parati 1.0L 16V EA111 RSH (Gasolina)	4	IN	22.50 x 5.97 x 101.70	M/SH	45°15'	C	A	**VA0700074**
		EX	20.00 x 5.90 x 101.60	A/M	45°	C	C	**VE0700073**
Gol, Parati, Saveiro 1600/1800cc. Motor Ford Carburado	4	IN	36.38 x 6.98 x 97.02	M/CP	45°	L	C	**VA0590044**
Gol Motor AT 1.0L 8v. Mi (Gasolina/Álcool)	4	IN	30.97 x 6.96 x 94.68	M/SH	44°50'	C	A	**VA0700028**
		EX	25.97 x 6.94 x 94.33	A/M	Stellit 44°50'	C	A	**VE0700027**
Gol GIII (02->) Motor 1.0L 8V AT (ASF / AZN / BJR / BTY) - Gol GIV (05->) Motor 1.0 8V (BNW / BTY / AZN / CCPA) - Fox Motor 1.0L 8v (AQZ / BJE / BNX / CCNA) / Gol GV - Motor 1.0L 8v VHT (Flex)	4	IN	31.00 x 5.98 x 99.00	M/N	45°10'	C	C	**VA0701421**
		EX	26.00 x 5.96 x 99.00	A/M/N	45°10'	C	C	**VE0701422**
Golf, Bora, New Beetle 2.0L 8v. (99->), Golf e Audi A3 1.6L 8v. EA113 (->2001), Passat 2.0L 8v. (94->97)	4	IN	39.50 x 6.98 x 91.80	M/SH	45°	C	C	**VA0700089**
		EX	32.90 x 6.97 x 91.10	A/M	45°	C	A	**VE0700190**
Golf, Bora, New Beetle 2.0L 8v. APK (México)	4	IN	39.50 x 6.98 x 91.80	M/SH	45°	C	C	**VA0700089**
		EX	32.90 x 7.00 x 91.15	A/M/ST	45°15'	C	C	**VE0700220**
Jetta Motor 2.5L 20v. Gasolina	5	IN	33.86 x 5.98 x 103.97	M/SH	45°	C	C	**VA0701459**
		EX	28.00 x 5.97 x 101.88	AN/M/CP	45°	C	A	**VE0701460**

	Nº CIL.	TIPO TYPE						
Kombi 1.4L 8v RSH EA111 (Flex) / 1.6L 8v RSH EA111 (Flex) - Gol G5, Golf, Fox, Space Fox, Cross Fox, Saveiro G5, Polo Hatch/Sedan	4	IN	34.50 x 6.00 x 99.18	M/N	45°10'	C	C	**VA0700267**
		EX	28.00 x 6.00 x 99.18	A/M/ST	45°10'	C	A	**VE0700268**
Kombi, Passat Motor 1600cc. Diesel	4	IN	34.00 x 7.95 x 104.75	M	45°30'	C	E	**VA0700082**
		EX	31.08 x 7.94 x 104.45	A/M	Stellit 45°	C	E	**VE0700081**
Motor 1300 - Refrigerado a Ar (BY/ BM) Gasolina/Álcool	4	IN	33.03 x 7.94 x 111.70	M	44°15'	C	C	**VA0700050**
		EX	30.00 x 7.90 x 111.90	A/M	45°	C	A	**VE0700049**
Motor 1500/ 1600 (->03/84) Refrigerado a Água	4	IN	34.00 x 7.96 x 98.70	M/SH	44°40'	A	C	**VA0700061**
		EX	31.18 x 7.94 x 98.45	A/M	44°50'	A	A	**VE0700062**
Motor 1600 Refrigerado a ar- Versão Econômica (BY/ BM/ Kombi Injeção) Alc./Gas.	4	EX	30.00 x 8.89 x 111.85	A/M	Stellit 45°	C	A	**VE0700021**
Motor 1500/ 1600 - (04/84->04/85) Refrigerado a Água, Passat 1.6L, 1.7L	4	IN	34.00 x 8.00 x 98.70	M	45°15'	C	E	**VA0700078**
		EX	31.10 x 8.00 x 98.50	A/M/ST	Stellit 45,17°	C	E	**VE0700077**
Motor 1500/ 1600 (05/85->), AP1600/1800 (->06/94), AP2000 (->10/90) Refrigerado a Água	4	IN	38.00 x 7.96 x 98.70	M/SH	45°50'	C	E	**VA0700017**
Motor 1500/ 1600/ 1700 - Refrigerado a Ar (BP/ BG/ UA/ BX/ BH/ BR/ BI/ BL/ Kombi Injeção)	4	IN	35.50 x 7.94 x 111.70	M	46°30'	C	C	**VA0700020**
		EX	31.88 x 7.93 x 111.90	A/M	45°	C	C	**VE0700022**
Motor AP1600/ 1800/ 2000 (->06/94) Refrigerado a Água	4	EX	33.18 x 7.93 x 98.45	A/M/ST	44°50'	C	A	**VE0700016**
Motor AAU, ABD 1000cc., 1400cc. - SEAT Ibiza / Córdoba	4	IN	34.00 x 6.96 x 99.00	M/SH	44°52'	C	A	**VA0700758**
		EX	28.90 x 6.94 x 99.00	A/M/ST	44°52'	C	A	**VE0701141**
Pointer, Logus, Santana, Gol, Parati Motor 1.6/1.8L Injeção com tucho hidráulico	4	IN	38.00 x 7.96 x 91.40	M/SH	44°30'	C	C	**VA0590066**
		EX	33.00 x 7.94 x 90.80	A/M/ST	Stellit 45°10'	C	A	**VE0590065**

	Nº CIL.	TIPO TYPE						
Motor D12A -> Caminhão FH12-340, 380, 420 Turbo Diesel (até 1998) / D12C / D12D	6	IN	39.90 x 7.97 x 192.30	M/CP	30°	N	A	**VA0710203**
Motor D12A -> Caminhão FH12-340, 380, 420 Turbo Diesel (até 1998)	6	EX	40.00 x 7.96 x 191.70	AB/M/CP	45°	A	A	**VE0710201**
Caminhão FM, FH, NH até 2003 - Motor D12A/ D12C / D12D	6	IN	39.90 x 7.97 x 192.30	M/CP	30°	N	A	**VA0710203**
Caminhão FM, FH, NH - Motor D12C (98->) / D12D	6	EX	40.00 x 7.96 x 191.70	A/CP/M	45°30'	A	A	**VE0710202**
Caminhão N10 - Motor TD100 / D10, N10, NL10, F10, B10R Motor THD100E, THD101H (Turbo) Eletrônico	6	IN	49.98 x 10.99 x 167.20	CP/M	29°30'	A	A	**VA0710063**
		EX	45.98 x 10.97 x 167.15	A/CP/M/ST	Stellit 44°30'	A	A	**VE0710064**
Caminhão N12 - Motor TD 120, TD123 E/S Turbo	6	IN	53.98 x 10.99 x 167.20	CP/M	29°30'	A	A	**VA0710121**
		EX	49.93 x 10.97 x 167.15	A/M/ST/CP	44°30'	A	A	**VE0710120**
Motor D13 / MD13	6	IN	42.00 x 7.97 x 191.96	A/CS/CP	Stellit 65°30'	C	C	**VA0711398**
		EX	40.00 x 7.97 x 191.78	A/CS/CP	Stellit 50°45'	C	C	**VE0711399**

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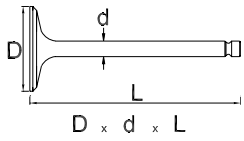
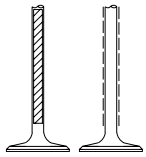
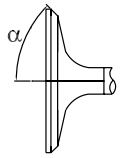
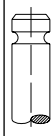
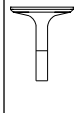
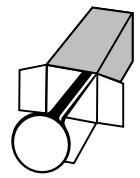
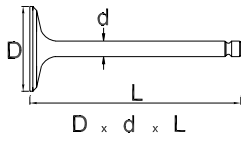
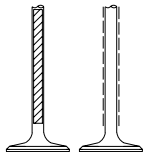
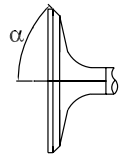
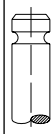
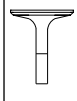
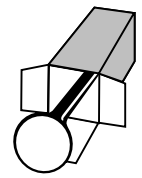
	Nº CIL.	TIPO TYPE						
Motor Mazda FE - Empilhadeira GP25RE	4	IN	33.70 x 5.99 x 103.20	A/N	45°30'	A	C	**VA2111419**
		EX	28.95 x 5.98 x 103.95	A/N	45°	A	C	**VE2111420**

	Nº CIL.	TIPO TYPE						
YBR 125 cc	1	IN	26.00 x 5.00 x 64.30	M	45°	A	C	**VA0520199**
		EX	22.00 x 5.00 x 63.50	A/M	45°	A	C	**VE0520200**

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA0010211	7301820				3510-ACB	IVECO
VA0010211	7301820				3510-ACB	PEUGEOT
VA0011467	504072531					IVECO
VA0011469	500355778			50.017.897		IVECO
VA0011475	504069199					IVECO
VA0030331	13201-50K00					NISSAN
VA0031506	13201-5X00B					NISSAN
VA0031570	13201-CP50A					NISSAN
VA0031604	13201-4589R					RENAULT
VA0031608	13201-3AC0A					NISSAN
VA0060902	7004.00600500.8					AGRALE
VA0060903	7006.00600500.3					AGRALE
VA0060904	7007.00600500.1					AGRALE
VA0110140	8H-1993		VS-0696			CATERPILLAR
VA0110143	5S-6452		VS-0969			CATERPILLAR
VA0110145	6N-9915		VS-2401			CATERPILLAR
VA0110232	7W-8064		VS-3124		3614-AC	CATERPILLAR
VA0110232	7W-8064		VS-3124		3614-AC	GENERAL MOTORS
VA0110235	9L-7682				561-A	CATERPILLAR
VA0111407	1456855					CATERPILLAR
VA0111409	5I-7738					CATERPILLAR
VA0111411	1632442					CATERPILLAR
VA0111413	2102542					CATERPILLAR
VA0111415	2335469					CATERPILLAR
VA0130011	9.2260.460.0054	VX 0304 AA	VS-1134	50.017.717	565-AC	FORD
VA0130011	9.2260.460.0054	VX 0304 AA	VS-1134	50.017.717	565-AC	MWM
VA0130099	622804603014	VX 0692 AA	VS-2696	50.017.767	3390-AC	MWM
VA0130101	9.610.0.460.003.4	VX 2123 AA	VS-2825	50.017.844	3422-AC	MWM
VA0130101	9.610.0.460.003.4	VX 2123 AA	VS-2825	50.017.844	3422-AC	VOLKSWAGEN
VA0130277	9.4070.460.0034				3546-AC	GENERAL MOTORS
VA0130277	9.4070.460.0034				3546-AC	MWM
VA0140015	90323518/ 642763	VX 2332 AA	VS-4261	50.017.754	3136-AC	GENERAL MOTORS
VA0140026	93248325	VX 2996 AA			3578-AC	GENERAL MOTORS
VA0140040	90220119	VX 1699 AA	VS-1980	50.017.752	3109-AC	GENERAL MOTORS
VA0140041	52285384	VX 2034 AA	VS-1660	50.017.753	3045-ECP	GENERAL MOTORS
VA0140072	90412277/641022	VX 2909 AA	VS-5094		3140-AC	GENERAL MOTORS
VA0140076	90412712	VX 2463 AA		50.017.837	3138-AC	GENERAL MOTORS
VA0140084	94621104/1038	VX 1550 AA	VS-1299	50.017.710	332-AC	GENERAL MOTORS
VA0140084 0,076	94621039/1040				332-AC+3	GENERAL MOTORS
VA0140084 0,127					332-AC+5	GENERAL MOTORS
VA0140084 0,152	94621041				332-AC+06	GENERAL MOTORS
VA0140084 0,254					332-AC+10	GENERAL MOTORS
VA0140084 0,304	94621607				332-AC+12	GENERAL MOTORS
VA0140084 0,381					332-AC+15	GENERAL MOTORS
VA0140084 0,508					332-AC+20	GENERAL MOTORS
VA0140084 0,762					332-AC+30	GENERAL MOTORS
VA0140086	7083246 / 90215492	VX 2331 AA	VS-4899	50.017.835	3146-AC	FIAT
VA0140086	90215492 / 7083246	VX 2331 AA	VS-4899	50.017.835	3146-AC	GENERAL MOTORS
VA0140104	2638552/ 3774052	VX 0220 AB	VS-1202	50.017.701	137-A	GENERAL MOTORS
VA0140106	3695455/ 3758810	VX 0013 AA	VS-0040	50.017.700	135-A	GENERAL MOTORS
VA0140108	2787538/ 3786360	VX 0221 AA +3	VS-865	50.017.702	137-A+3	GENERAL MOTORS
VA0140110	3786361/ 3995685	VX 0222 AA +15	VS-866	50.017.703	137-A+15	GENERAL MOTORS
VA0140114	90136614/6613	VX 1220 AA	VS-1415	50.017.713	344-AC	GENERAL MOTORS
VA0140114 0,076	90136615				344-AC+3	GENERAL MOTORS
VA0140114 0,381	90136616				344-AC+15	GENERAL MOTORS
VA0140114 0,762	90136617				344-AC+30	GENERAL MOTORS
VA0140183	10241743					GENERAL MOTORS
VA0140226	93333561	VX 3176 AA				GENERAL MOTORS

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA0141396	93399245	V75591A0				GENERAL MOTORS
VA0141431	93361392					GENERAL MOTORS
VA0141574	12615936					GENERAL MOTORS
VA0141579	55569449					GENERAL MOTORS
VA0141581	55570710					GENERAL MOTORS
VA0180124	7701471378/ 7700107602	VX 3101 AA			3598-A	RENAULT
VA0180389	7702220678				3308-AC	RENAULT
VA0180393	8200708663			50.017.935	3526-A	RENAULT
VA0180395					3714-A	RENAULT
VA0180415	7701471279				3864-A	RENAULT
VA0180421	7701469266				3620-A	RENAULT
VA0180423	7700855926					RENAULT
VA0181483	7701472669					RENAULT
VA0181606 (VA0180427)	13201-00Q0H / 7701472986				3862-A	NISSAN
VA0181606 (VA0180427)	7701472986 / 13201-00Q0H				3862-A	RENAULT
VA0210147	135957				420-A	CUMMINS
VA0210151	3920867/ 3802355		VS-4307		3466-AC	CUMMINS
VA0210151	3920867/ 3802356		VS-4307		3466-AC	FORD
VA0210151	3920867/ 3802356		VS-4307		3466-AC	VOLKSWAGEN
VA0210153	3924492/ 3802463		VS-4309		3334-AC	CUMMINS
VA0210153	3924492/ 3902253		VS-4309		3334-AC	FORD
VA0210153	3924492/ 3802463		VS-4309		3334-AC	VOLKSWAGEN
VA0210237	3418020/ 3068828/ 3800638					CUMMINS
VA0210442	3940735				3976-AC	CUMMINS
VA0210446	3801356 / 3033234					CUMMINS
VA0211371	3942588/ 3800340				4024-AC	CUMMINS
VA0211427	4089761					CUMMINS
VA0211465	3803515					CUMMINS
VA0230119	800558	VX 0023 AA	VS-0016	50.017.759	3272-A	FORD WILLYS
VA0250002	43401180	VX 0514 AB	VS-992	50.017.170	380-AC	FIAT
VA0250018	46470637/ 46559031	VX 2028 AA	VS-4897	50.017.756	3234-AC	FIAT
VA0250052	7722907	VX 2607 AA	VS-4530	50.017.761	3320-AC	FIAT
VA0250054	7617500	VX 2399 AA	VS-2692	50.017.720	856-AC	FIAT
VA0250060	4239917/ 4460697	VX 2220 AA	VS-2556	50.017.714	175-AC	FIAT
VA0250159	7547400	VX 2047 AB	VS-2873	50.017.745	1826-AC	FIAT
VA0250160	7735898				3600-AC	FIAT
VA0250162	46553046	VX3128AA			3800-AC	FIAT
VA0250165					3514-AC	FIAT
VA0250166	46553048				3558-AC	FIAT
VA0250168	60811153/ 7766564				3736-AC	ALFA ROMEO
VA0250168	60811153/ 7766564				3736-AC	FIAT
VA0250271	55195497	V76562A0			3956-AC	FIAT
VA0250513	98468338				3586-ACB	CITROËN
VA0250513	98468338				3586-ACB	FIAT
VA0250513	98468338				3586-ACB	IVECO
VA0250513	98468338				3586-ACB	PEUGEOT
VA0250513	98468338				3586-ACB	RENAULT
VA0251610	55224590					FIAT
VA0251614	7085036					FIAT
VA0310273	836646356					VALMET / VALTRA
VA0380226	675046-C4					INTERNATIONAL
VA0380228	676687-C4					INTERNATIONAL
VA0380231	1818580-C1					INTERNATIONAL
VA0381304	1823875-C1				3968-AC	INTERNATIONAL
VA0430546	R-98062					JOHN DEERE
VA0430546 0,381	R-97490					JOHN DEERE

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA0440551	9153501780				3301-AC	CITROËN
VA0440551	9153501780				3301-AC	PEUGEOT
VA0440557	094866/ 9605936180				3542-A	PEUGEOT
VA0440561	094892/ 9628943380				3540-A	PEUGEOT
VA0440566	7932582418				381-AC	PEUGEOT
VA0440566+04					381-AC+0,4	PEUGEOT
VA0440566+08					381-AC+0,8	PEUGEOT
VA0440567	9350111580/480				3241-AC	GENERAL MOTORS
VA0440567	9350111580/480				3241-AC	PEUGEOT
VA0440567+04					3241-AC+0,4	GENERAL MOTORS
VA0440567+04					3241-AC+0,4	PEUGEOT
VA0440567+08					3241-AC+0,8	GENERAL MOTORS
VA0440567+08					3241-AC+0,8	PEUGEOT
VA0440569	094861/ 9626052980				3576-A	PEUGEOT
VA0440571	96172597					CITROËN
VA0440571	96172597					PEUGEOT
VA0440572	97531079					CITROËN
VA0440572	97531079					PEUGEOT
VA0440575	96101886/ 96183535				4010-A	CITROËN
VA0440575	96101886/ 96183535				4010-A	PEUGEOT
VA0440578	0948A9				3616-A	CITROËN
VA0440578	0948A9				3616-A	PEUGEOT
VA0440579	0948.99 / 0948.F4				3884-A	CITROËN
VA0440579	0948.99 / 0948.F4				3884-A	PEUGEOT
VA0441040	9153501680					PEUGEOT
VA0441091	094891				3798-A	PEUGEOT
VA0480004	3520530101	VX 0246 AE	VS-1177	50.017.042	226-AC	MERCEDES-BENZ
VA0480006	3760530101	VX 2388 AA	VS-1814	50.017.391	3260-ACB	MERCEDES-BENZ
VA0480006+04					3260-ACB+0,4	MERCEDES-BENZ
VA0480006+08					3260-ACB+0,8	MERCEDES-BENZ
VA0480007	366.050.1226	VX 2811 AA	VS-2770	50.017.794	3260-ACB-20°	MERCEDES-BENZ
VA0480048	3460530001	VX 0383 AA	VS-1157	50.017.044	229-AC	MERCEDES-BENZ
VA0480048+04					229-AC+0,4	MERCEDES-BENZ
VA0480048+08					229-AC+0,8	MERCEDES-BENZ
VA0480056	4220500226/ 4420500526	VX 2387 AA	VS-2520		1839-ACB	MERCEDES-BENZ
VA0480080	3450537001	VX 1565 AA	VS-1129	50.017.757	843-AC	MERCEDES-BENZ
VA0480080+04					843-AC+0,4	MERCEDES-BENZ
VA0480080+08					843-AC+0,8	MERCEDES-BENZ
VA0480091	3550530001	VX 0846 AA	VS-1136	50.017.119	3262-AC	MERCEDES-BENZ
VA0480096	3760530001	VX 2390 AA (VA1648A)	VS-2587	50.017.389	2026-AC 30°	MERCEDES-BENZ
VA0480096+04					2026-AC 30° +0,4	MERCEDES-BENZ
VA0480096+08					2026-AC 30° +0,8	MERCEDES-BENZ
VA0480193	5410500226		VS-5037		3856-AC	MERCEDES-BENZ
VA0480233	6110530101				3658-AN	MERCEDES-BENZ
VA0480244	9060500326	VX 3004 AB			3846-AC	MERCEDES-BENZ
VA0481436	A5410530101					MERCEDES-BENZ
VA0481563	A6510530101					MERCEDES-BENZ
VA0510029	14711-KYO-8901-R	VX 2324 AA	VS-4993	50.017.774	3416-AC	HONDA
VA0510045	14711-383-000	VX 0786 AA	VS-4906	50.017.778	23293-AP	HONDA
VA0510070	14711-KW1-9000-R	VX 2009 AA	VS-4995	50.017.785	1001-AC	HONDA
VA0510115	14711-440-0030-BR	VX 0989 AA	VS-4985			HONDA
VA0510116	14711-397-6300	VX 1473 AA	VS-4917	50.017.772	3408-AC	HONDA
VA0510126	14711-GN5-9130	VX 3043 AA				HONDA
VA0510128	14711-KPF-9000-RW1	VX 3131 AA				HONDA
VA0510130	14711-428-000			50.017.771		HONDA
VA0510132	14711-KGO-000			50.017.773		HONDA

MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA0510134	14711-KL3-670			50.017.843		HONDA
VA0510191	14711-413-000			50.017.743		HONDA
VA0510195	14711-KGA-B000-R	VX 3207 AA				HONDA
VA0510197	14711-KRM-8400	VX 3273 AA				HONDA
VA0510209	14711-PO8000					HONDA
VA0510227	14711-KSS-9000	VX 3204 AA				HONDA
VA0510257	14711-RNA-A000			50.017.930		HONDA
VA0510263	14711-PWA-000			50.017.926		HONDA
VA0510265	14711-PWC-000			50.017.928		HONDA
VA0510269	14711-KCY-670					HONDA
VA0511425	14711-KVS-900					HONDA
VA0511477	14711-KWG-600					HONDA
VA0520199	5HH-12111-00	VX 3285 AA				YAMAHA
VA0570024	31431315	VX 0602 AA	VS-1160	50.017.792	249-AC	GENERAL MOTORS
VA0570024	31431315	VX 0602 AA	VS-1160	50.017.792	249-AC	PERKINS (MAXION)
VA0570032	70910001/4	VX 0256 AA	VS-887	50.017.704	247-A C/P	PERKINS (MAXION)
VA0570033	0910030/ 0910069	VX 0090 AA	VS-1754	50.017.707	250-AMF	FORD
VA0570033	0910030/ 0910069	VX 0090 AA	VS-1754	50.017.707	250-AMF	PERKINS (MAXION)
VA0570035	31431261/ 0910001	VX 0092 AB	VS-620		247-A	PERKINS (MAXION)
VA0570035+04					247-A+0.4	PERKINS (MAXION)
VA0570035+08					247-A+0.8	PERKINS (MAXION)
VA0570038	70910017	VX 1912 AA	VS-2815	50.017.769	3392-AC	GENERAL MOTORS
VA0570038	70910017	VX 1912 AA	VS-2815	50.017.769	3392-AC	PERKINS (MAXION)
VA0570111	31431723/ 70910011	VX 0440 AA	VS-1423	50.017.739	1498-ACP	FORD
VA0570111	31431723/ 70910011	VX 0440 AA	VS-1423	50.017.739	1498-ACP	PERKINS (MAXION)
VA0570123	70910025/35	VX 2299 AA	VS-2831		3342-AC	GENERAL MOTORS
VA0570123	70910025/35	VX 2299 AA	VS-2831		3342-AC	PERKINS (MAXION)
VA0570231	70910081				3858-ACB	FORD
VA0570231	70910081				3858-ACB	PERKINS (MAXION)
VA0570250	70910053				3344-ACB	FORD
VA0570250	70910053				3344-ACB	GENERAL MOTORS
VA0570250	6010531901				3344-ACB	MERCEDES-BENZ
VA0570250	70910053				3344-ACB	PERKINS (MAXION)
VA0570657	70910096 (70910037)				3388-ACB	GENERAL MOTORS
VA0570657	70910096 (70910037)				3388-ACB	PERKINS (MAXION)
VA0571369	70910061					PERKINS (MAXION)
VA0590043	84AU-6507-A	VX 1320 AA	VS-2489	50.017.747	3036-A	FORD
VA0590044	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	50.017.797	814-AC	FORD
VA0590044	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	50.017.797	814-AC	VOLKSWAGEN
VA0590066	035109601G	VX 1812 AB	VS-4762	50.017.826	3312-A	FORD
VA0590066	035109601G	VX 1812 AB	VS-4762	50.017.826	3312-A	VOLKSWAGEN
VA0590067	026109601D	VX 1947 AA	VS-2639		3602-A	FORD
VA0590067	026109601D	VX 1947 AA	VS-2639		3602-A	VOLKSWAGEN
VA0590093	59112	VX 0250 AA	VS-1205	50.017.749	3038-A	FORD
VA0590094	78MU-6507-A	VX 0756 AA	VS-1132	50.017.708	326-A	FORD
VA0590170	XS6E6507AA	V76175A0			3062-AC	FORD
VA0590172	89BM-6507AA					FORD
VA0590174		V74469A0	VS-4939		3092-AC	FORD
VA0590179	97MM6507BB2B			50.017.870	3064-AC	FORD
VA0590180	928M-650-F2-A		VS-5294		3066-AC	FORD
VA0590181	89BM-6507AA				3052-AC	FORD
VA0590221	2L2Z-6507-BA					FORD
VA0590255	1S7Z-6507-AA				3094-AC	FORD
VA0591461	F57Z-6507-A					FORD
VA0591471	1S4G-6507-CB					FORD
VA0591473	YS4E-6507-AB					FORD

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA0591474	AS65-6507-AA					FORD
VA0630205	13711-15090					TOYOTA
VA0630207	13711-22030					TOYOTA
VA0630213	13711-0L020					TOYOTA
VA0630240	13711-17010					TOYOTA
VA0630259	13711-58021				3892-AN	TOYOTA
VA0631405	137117601271					TOYOTA
VA0631453	13711-0L010 / 13711-30040					TOYOTA
VA0631550	13711-37030					TOYOTA
VA0700009	036.109.601.R	VX 2875 AA	VS-5127		3508-A	VOLKSWAGEN
VA0700017	035.109.601.C	VX 1368 AA	VS-1646	50.017.396	815-AC	VOLKSWAGEN
VA0700020	040.109.601.2	VX 0434 AG	VS-869	50.017.716	452-A	VOLKSWAGEN
VA0700028	030.109.601.AC	VX 2930 AA	VS-4919	50.017.849	3512-A	VOLKSWAGEN
VA0700050	040.109.601.1	VX 0435 AF	VS-868	50.017.715	422-A	VOLKSWAGEN
VA0700061	056.109.601.A	VX 0428 AF	VS-981		422-AC	VOLKSWAGEN
VA0700074	036.109.601.AE	VX 3090 AA			3870-A	VOLKSWAGEN
VA0700078	049.109.601.F	VX 1202 AA	VS-1356	50.017.385		VOLKSWAGEN
VA0700082	068.109.601.C	VX 1210 AA	VS-1358	50.017.016	303-AC	VOLKSWAGEN
VA0700088	048.109.601.E	VX 2923 AA	VS-4510		3484-AB	VOLKSWAGEN
VA0700089	078.109.601.B	VX 2975 AA	VS-4546		3486-A	VOLKSWAGEN
VA0700242	058.109.601.C			50.004.507	3488-AS	AUDI
VA0700242	058.109.601.C			50.004.507	3488-AS	VOLKSWAGEN
VA0700252	032.109.601.M	VX 3066 AA				VOLKSWAGEN
VA0700267	032.109.601.P	V75152A0				VOLKSWAGEN
VA0700758	030.109.601.G				3972-A	SEAT
VA0700758	030.109.601.G				3972-A	VOLKSWAGEN
VA0701421	030.109.601.AS	V75154A0				VOLKSWAGEN
VA0701459	06D.109.601K					VOLKSWAGEN
VA0701558	03L.109.601					VOLKSWAGEN
VA0710063	469240/ 4675002/ 8194223	VX 0588 AB	VS-4934	50.017.126	860-AC	VOLVO
VA0710121	468302	VX 1594 AA	VS-4937	50.017.124	582-AC	VOLVO
VA0710203	1547492		VS-5143	50.017.689		VOLVO
VA0711398	20740798					VOLVO
VA0720154				50.017.857		ASIA MOTORS
VA0760013	352211	VX 1784 AA	VS-4902	50.017.789	1374-ACB 20°	SCANIA
VA0760103	1515743/ 1333230	VX 2750 AA			3663-ECBS	SCANIA
VA0760215	1319081					SCANIA
VA0760225	1785076					SCANIA
VA0761423	1887056			50.017.087		SCANIA
VA1401226	11341739820/822					BMW
VA1950223	MD198404					MITSUBISHI
VA1950234	MD-088811					MITSUBISHI
VA1950236	ME-203101					MITSUBISHI
VA1950247	ME-202687				3580-AN	MITSUBISHI
VA1950261	MD-159502				3464-AN	MITSUBISHI
VA1950825	MD-085253					MITSUBISHI
VA1951571	MD-162422					MITSUBISHI
VA1961403	87802264					CASE
VA2080849	22211-42520					HYUNDAI
VA2081301	22211-42220					HYUNDAI
VA2081417	22211-23600					HYUNDAI
VA2081417	22211-23600					KIA MOTORS
VA2081552	22211-2B400					HYUNDAI
VA2081552	22211-2B400					KIA MOTORS
VA2110185	ON01-12-111		VS-5281	50.017.850	3548-APN	KIA MOTORS
VA2110185	ON01-12-111		VS-5281	50.017.850	3548-APN	MAZDA

MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VA2110187	OK65D12111		VS-5296			KIA MOTORS
VA2110229	K710-12-111		VS-5284	50.017.866	3298-AN	KIA MOTORS
VA2110229	K710-12-111		VS-5284	50.017.866	3298-AN	MAZDA
VA2111419	OK 9541 2111					HYSTER
VA2111419	OK 9541 2111					KIA MOTORS
VA2111419	OK 9541 2111					YALE
VA3481577	372-1007011					CHERY
VA3551556	1003012GG013					JAC MOTORS
VA5511554	14711-RC0-M00					HONDA
VA5511568	14711-RNE-A00					HONDA
VC0060905	7008.00600500.9					AGRALE
VC0481344	A9060160791				3874-EC	MERCEDES-BENZ
VC0481345	A5410160791				3875-EC	MERCEDES-BENZ
VC0481565	A4420160391					MERCEDES-BENZ
VE0010212	99432837EC54-0652					IVECO
VE0010212	99432837EC54-0652					PEUGEOT
VE0011468	504081062					IVECO
VE0011470	504293892			50.017.898		IVECO
VE0011616	504378070					IVECO
VE0031124	13202-50K02					NISSAN
VE0031507	13202-5X00B					NISSAN
VE0031605	13202-EN20B / 13202-0970R					NISSAN
VE0031605	13202-0970R / 13202-EN20B					RENAULT
VE0031609	13202-3HC0A					NISSAN
VE0060323	7006.00600600.1					AGRALE
VE0060906	7004.00600600.6					AGRALE
VE0060907	7007.00600600.9					AGRALE
VE0110141	8H-1994		VS-460			CATERPILLAR
VE0110142	5S-6449		VS-968			CATERPILLAR
VE0110144	8N-0875		VS-1406			CATERPILLAR
VE0110146	6N-9916/ 1487455		VS-2402		23210-EBS	CATERPILLAR
VE0110233	136-0819		VS-3140			CATERPILLAR
VE0110233	136-0819		VS-3140			GENERAL MOTORS
VE0110234	9L-7683				1561-EB	CATERPILLAR
VE0111408	1456857					CATERPILLAR
VE0111410	5I-7739					CATERPILLAR
VE0111412	1883122					CATERPILLAR
VE0111414	2102529					CATERPILLAR
VE0111416	2335470					CATERPILLAR
VE0130010	9.3080.460.0024	VX 0305 AA	VS-1135	50.017.199	1565-ECB	FORD
VE0130010	9.3080.460.0024	VX 0305 AA	VS-1135	50.017.199	1565-ECB	MWM
VE0130098	9.229.0.460.003.4	VX 1975 AA	VS-2695	50.017.768	3391-ECB	MWM
VE0130100	9.610.0.460.002.4	VX 2124 AA	VS-2824	50.017.844	23423-ECBS	MWM
VE0130100	9.610.0.460.002.4	VX 2124 AA	VS-2824	50.017.844	23423-ECBS	VOLKSWAGEN
VE0130239	9.612.0.460.001.4 / 9.612.8.460.001.4					MWM
VE0130278	9.4070.460.0024				3547-ECBS	GENERAL MOTORS
VE0130278	9.4070.460.0024				3547-ECBS	MWM
VE0140014	90.323.523/ 642890	VX 2333 AA	VS-4262	50.017.755	3137-ECB	GENERAL MOTORS
VE0140025	93248326	VX 2997 AA			3579-ECB	GENERAL MOTORS
VE0140039	90323756	VX 2059 AA			23109-ECP	GENERAL MOTORS
VE0140071	90410813/ 641325	VX 2274 AA	VS-5086		23141-ECBS	GENERAL MOTORS
VE0140075	90412974	VX 2925 AA		50.017.838	3139-EC	GENERAL MOTORS
VE0140083	94621105/1043	VX 0365 AC	VS-1302	50.017.732	1332-ECP	GENERAL MOTORS
VE0140083 0,076	94621045				1332-ECP+3	GENERAL MOTORS
VE0140083 0,127					1332-ECP+5	GENERAL MOTORS
VE0140083 0,152	94621047				1332-ECP+06	GENERAL MOTORS

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VE0140083 0,254					1332-ECP+10	GENERAL MOTORS
VE0140083 0,304	94621609				1332-ECP+12	GENERAL MOTORS
VE0140083 0,381					1332-ECP+15	GENERAL MOTORS
VE0140083 0,508					1332-ECP+20	GENERAL MOTORS
VE0140083 0,762					1332-ECP+30	GENERAL MOTORS
VE0140085	90324412	VX 2334 AA	VS-4900	50.017.836	3147-ECB	GENERAL MOTORS
VE0140105	3724778/ 3989084	VX 0219 AB - STD	VS-1201	50.017.721	1138-EG	GENERAL MOTORS
VE0140107	3732758	VX 0238 AA +3	VS-1335	50.017.722	1138-EG+3	GENERAL MOTORS
VE0140109	7323108/ 3995603	VX 0239 AA +15	VS-1481	50.017.723	1138-EG+15	GENERAL MOTORS
VE0140113	90136620/6621	VX 1221 AA	VS-1658	50.017.736	1344-ECP	GENERAL MOTORS
VE0140113 0,076	90136622				1344-ECP+3	GENERAL MOTORS
VE0140113 0,381					1344-ECP+15	GENERAL MOTORS
VE0140113 0,762	90136624				1344-ECP+30	GENERAL MOTORS
VE0140184	12550909				3163-ECP	GENERAL MOTORS
VE0140248	93333562	VX3177AA				GENERAL MOTORS
VE0140370	7083242					FIAT
VE0141397	93399247	V76379A0				GENERAL MOTORS
VE0141573	24578793					GENERAL MOTORS
VE0141575	55563529					GENERAL MOTORS
VE0141576	24579670					GENERAL MOTORS
VE0141580	55569450					GENERAL MOTORS
VE0141582	55570709					GENERAL MOTORS
VE0180125	7701473354/ 8200054762	VX 3102 AA			3599-EB	RENAULT
VE0180310	8200708662			50.017.936	3527-E	RENAULT
VE0180396	7700865449				3715-EB	RENAULT
VE0180416	7701471280					RENAULT
VE0180422	7701469269				3621-EB	RENAULT
VE0180424	7700855927					RENAULT
VE0181484	7701472670					RENAULT
VE0181607 (VE0180438)	13202-00Q0K / 7701473004				3863-EB	NISSAN
VE0181607 (VE0180438)	7701473004 / 13202-00Q0K				3863-EB	RENAULT
VE0210148	3803524		VS-0985			CUMMINS
VE0210149	3803519		VS-985			CUMMINS
VE0210150	3920868/ 3802356		VS-4306		3467-ECB	CUMMINS
VE0210150	3920868/ 3802356		VS-4306		3467-ECB	FORD
VE0210150	3920868/ 3802356		VS-4306		3467-ECB	VOLKSWAGEN
VE0210152	3921444/ 3802085		VS-4308		3335-ECP	CUMMINS
VE0210152	3921444/ 3902254		VS-4308		3335-ECP	FORD
VE0210152	3921444/ 3802085		VS-4308		3335-ECP	VOLKSWAGEN
VE0210236	3418021/ 3070159/ 3800639					CUMMINS
VE0210443	3940734				3977-ECB	CUMMINS
VE0211261	3803995 / 3803996 / 3895477					CUMMINS
VE0211372	3942589/ 3800341				4025-ECB	CUMMINS
VE0211428	4089762					CUMMINS
VE0211466	3803529					CUMMINS
VE0230118	800558	VX 0088 AA	VS-770	50.017.760	3273-E	FORD WILLYS
VE0230118	B-27220	VX 0088 AA	VS-770	50.017.760	3273-E	JEEP
VE0250001	59852970	VX 1628 AA	VS-993	50.017.171	1380-EC	FIAT
VE0250019	7633752/ 46470638	VX 2029 AA	VS-4898		23234-ECS	FIAT
VE0250051	7574742	VX 2608 AA	VS-4531	50.017.762	3321-ECB	FIAT
VE0250053	5973128	VX 2400 AA	VS-2691	50.017.787	1175-ECSS	FIAT
VE0250059	5973129	VX 2221 AA	VS-2557	50.017.737	1383-EC	FIAT
VE0250158	7597080	VX 2392 AA			1826 ECB	FIAT
VE0250161	7735899					FIAT

MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VE0250163	46553049				3559-ECBS	FIAT
VE0250164					3515-EC	FIAT
VE0250167	46553047	VX 3129 AA				FIAT
VE0250169	60811154/ 7766565					ALFA ROMEO
VE0250169	60811154/ 7766565					FIAT
VE0250272	55195498	V76563A0			3997-ECB	FIAT
VE0251476	55218807			50.017.972		FIAT
VE0251611	55231699					FIAT
VE0251615	7085037					FIAT
VE0310274	836646357					VALMET / VALTRA
VE0380227	676865-C4					INTERNATIONAL
VE0380229	1810086-C2					INTERNATIONAL
VE0380230	1824838-C1					INTERNATIONAL
VE0381312	1824840-C1					INTERNATIONAL
VE0430542	R-90692					JOHN DEERE
VE0430542 0,381	R-97492					JOHN DEERE
VE0440297	0949A6/ 962981180				3541-ECB	PEUGEOT
VE0440301	094962/9629861180					PEUGEOT
VE0440581	9350111780				23241-ECP	GENERAL MOTORS
VE0440581	9350111780				23241-ECP	PEUGEOT
VE0440581+04					23241-ECP+0,4	GENERAL MOTORS
VE0440581+04					23241-ECP+0,4	PEUGEOT
VE0440581+08					23241-ECP+0,8	GENERAL MOTORS
VE0440581+08					23241-ECP+0,8	PEUGEOT
VE0440583	7581717000				1246-EC	PEUGEOT
VE0440583+04					1246-EC+0,4	PEUGEOT
VE0440583+08					1246-EC+0,8	PEUGEOT
VE0440585	9153501980				23301-ECB	CITROËN
VE0440585	9153501980				23301-ECB	PEUGEOT
VE0440588	094959				23242-E	PEUGEOT
VE0440589	094972/ 9605936280					PEUGEOT
VE0440590	96172795					CITROËN
VE0440590	96172795					PEUGEOT
VE0440593	97531046				4035-EPN	CITROËN
VE0440593	97531046				4035-EPN	PEUGEOT
VE0440596	96101887				4011-ECB	CITROËN
VE0440596	96101887				4011-ECB	PEUGEOT
VE0440598	0949A8				3617-ECBS	CITROËN
VE0440598	0949A8				3617-ECBS	PEUGEOT
VE0441603 (VE0440599)	0949.99 / 0949.E9				3885-ECB	CITROËN
VE0441603 (VE0440599)	0949.99 / 0949.E9				3885-ECB	PEUGEOT
VE0441382	9153501880					PEUGEOT
VE0480003	3520531505	VX 0282 AB	VS-1178	50.017.049	1226-ECB	MERCEDES-BENZ
VE0480005	3660500227	VX 2389 AA	VS-2535	50.017.390	23260-ECB	MERCEDES-BENZ
VE0480005+04					23260-ECB+0,4	MERCEDES-BENZ
VE0480005+08					23260-ECB+0,8	MERCEDES-BENZ
VE0480047	3460530005	VX 0384 AA	VS-1158	50.017.056	1229-EC	MERCEDES-BENZ
VE0480047+04					1229-EC+0.4	MERCEDES-BENZ
VE0480047+08					1229-EC+0.8	MERCEDES-BENZ
VE0480055	4220500127/ 4420500227	VX 2600 AA	VS-4362		1839-ECB	MERCEDES-BENZ

MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VE0480079	3450500127/7005	VX 1566 AA	VS-1128	50.017.758	1843-ECP	MERCEDES-BENZ
VE0480079+04					1843-ECP+0,4	MERCEDES-BENZ
VE0480079+08					1843-ECP+0,8	MERCEDES-BENZ
VE0480090	3550530005	VX 0847 AA	VS-1137	50.017.120	3263-ECB	MERCEDES-BENZ
VE0480097	3760500027/ 3660500027	VX 2391 AA (VA1751A)	VS-2091	50.017.055	23260-ECB	MERCEDES-BENZ
VE0480097+04					23260-ECB+0,4	MERCEDES-BENZ
VE0480097+08					23260-ECB+0,8	MERCEDES-BENZ
VE0480194	5410500227	VX 2951 AB	VS-5225		3857-ECB	MERCEDES-BENZ
VE0480245	9060500327				3847-ECB	MERCEDES-BENZ
VE0480251	6110530005				3659-EN	MERCEDES-BENZ
VE0481437	A4570500327					MERCEDES-BENZ
VE0481564	A6510500127					MERCEDES-BENZ
VE0510030	14721-KYO-8901-R	VX 2325 AA	VS-4994	50.017.783	23417-ECBS	HONDA
VE0510046	14721-383-000	VX 0787 AA	VS-4918	50.017.779	23293-EP	HONDA
VE0510069	14721-KW1-9000-R	VX 2018 AA	VS-4996	50.017.786	1002-ECB	HONDA
VE0510117	14721-437-0000	VX 0990 AA	VS-4997	50.017.781	23409-ECSS	HONDA
VE0510127	14721-GF6-0101	VX 3042 AA				HONDA
VE0510129	14721-KPF-9000-RW1	VX 3132 AA				HONDA
VE0510131	14721-471-000			50.017.780		HONDA
VE0510133	14721-KGO-000			50.017.782		HONDA
VE0510135	14721-KFO-000			50.017.784		HONDA
VE0510192	14721-413-000			50.017.744		HONDA
VE0510196	14721-KGA-B000-R	VX 3208 AA				HONDA
VE0510198	17421-KRM-8400	VX 3274 AA				HONDA
VE0510210	14721-PO8000			50.017.635		HONDA
VE0510228	14721-KSS-9000	VX 3242 AA				HONDA
VE0510264	14721-PWA-000			50.017.927		HONDA
VE0510266	14721-PWC-000			50.017.929		HONDA
VE0511426	14721-KVS-900					HONDA
VE0511478	14721-KWG-600					HONDA
VE0520200	5HH-12121-00	VX 3286 AA				YAMAHA
VE0570023	31431851	VX 0604 AA	VS-1161	50.017.793	1249-ECP	GENERAL MOTORS
VE0570023	31431851	VX 0604 AA	VS-1161	50.017.793	1249-ECP	PERKINS (MAXION)
VE0570031	70910002	VX 0257 AA	VS-886	50.017.706	248-E C/P	PERKINS (MAXION)
VE0570034	0910041/ 0910073	VX 0087 AA	VS-457	50.017.727	1251-EPMF	FORD
VE0570034	0910041/ 0910073	VX 0087 AA	VS-457	50.017.727	1251-EPMF	PERKINS (MAXION)
VE0570036	0910002	VX 0091 AA	VS-618	50.017.705	248-E	PERKINS (MAXION)
VE0570037	70910018	VX 1913 AA	VS-2816	50.017.770	3393-ECB	GENERAL MOTORS
VE0570037	70910018	VX 1913 AA	VS-2816	50.017.770	3393-ECB	PERKINS (MAXION)
VE0570112	70910012	VX 0441 AA	VS-1424	50.017.740	1498-ECP	FORD
VE0570112	70910012	VX 0441 AA	VS-1424	50.017.740	1498-ECP	PERKINS (MAXION)
VE0570122	70910038	VX 2298 AA	VS-2833			GENERAL MOTORS
VE0570122	70910038	VX 2298 AA	VS-2833			PERKINS (MAXION)
VE0570230	70910054				23345-ECBS	FORD
VE0570230	70910054				23345-ECBS	GENERAL MOTORS
VE0570230	6010532827		VS-4892	50.017.847		MERCEDES-BENZ
VE0570230	70910076		VS-4892	50.017.847		PERKINS (MAXION)
VE0570232	70910080				3859-EBN	FORD
VE0570232	70910080				3859-EBN	PERKINS (MAXION)
VE0570649	3142A051					PERKINS (MAXION)
VE0590042	84AU-6505-A	VX 1319 AA	VS-2465	50.017.748	3037-EP	FORD
VE0590065	026 109 611 A				23238-EB	FORD
VE0590065	026 109 611 A				23238-EB	VOLKSWAGEN
VE0590092	78MU-6505-B	VX 0757 AA	VS-1204	50.017.729	1326-E	FORD

MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VE0590171	XS6E6505AB / 7S6G.6505.AA	V76176A0			3063-ECB	FORD
VE0590173	97BM-6505-AA				3053-ECB	FORD
VE0590175	XS6E6505BB / YS4E.6505.BA	V74470A0	VS-5127		3093-ECBS	FORD
VE0590178	X56G6505B2A			50017801		FORD
VE0590182	948M-6505-D2A		VS-5295		3067-ECB	FORD
VE0590222	2L2Z-6505-BA					FORD
VE0590256	1S7Z-6505-AA				3095-EC	FORD
VE0590276	F77Z-6505-AA/ 90TM-6505-AB				3043-ECP	FORD
VE0591462	F57Z-6505-A					FORD
VE0591472	AM5G-6505-AB					FORD
VE0630206	13715-16060					TOYOTA
VE0630208	13715-22030					TOYOTA
VE0630214	13715-0L020					TOYOTA
VE0630241	13715-17010				3779-EBN	TOYOTA
VE0630260	13715-58041				3893-EPN	TOYOTA
VE0631406	137157601471					TOYOTA
VE0631454	13715-0L010 / 13715-30040					TOYOTA
VE0631551	13715-37040					TOYOTA
VE0700008	036.109.611.J	VX 2989 AA	VS-5223		3509-EB	VOLKSWAGEN
VE0700016	035.109.611.F	VX 1472 AA	VS-1696	50.017.397	1815-EB	FORD
VE0700016	035.109.611.F	VX 1472 AA	VS-1696	50.017.397	1815-EB	VOLKSWAGEN
VE0700021	43109611	VX 0785 AB	VS-1317	50.017.728	1305-ECP	VOLKSWAGEN
VE0700022	311.109.612	VX 0366 AD	VS-1167	50.017.738	1453-E	VOLKSWAGEN
VE0700027	030.109.611.AC	VX 2931 AA	VS-4856		3513-EB	VOLKSWAGEN
VE0700049	040.109.612.2	VX 0201 AA	VS-850	50.017.788	1452-E	VOLKSWAGEN
VE0700062	056.109.611.A	VX 0429 AA	VS-980	50.017.072	1422-EB	VOLKSWAGEN
VE0700073	036.109.611.T	VX 3091 AA			3871-EB	VOLKSWAGEN
VE0700077	049.109.611.F	VX 1203 AA	VS-1357	50.017.386	1825-E	VOLKSWAGEN
VE0700081	068.109.611.C	VX 1209 AA	VS-1359	50.017.017	1303 ECB	VOLKSWAGEN
VE0700087	048.109.611.C	VX 2976 AA	VS-4511		3485-EBS	VOLKSWAGEN
VE0700190	048.109.611.B					VOLKSWAGEN
VE0700220	048.109.611.C					VOLKSWAGEN
VE0700243	058.109.611.E			50.004.508	3489-ECBS	AUDI
VE0700243	058.109.611.E			50.004.508	3489-ECBS	VOLKSWAGEN
VE0700253	032.109.611.L	VX 3092 AA				VOLKSWAGEN
VE0700268	032.109.611.Q	V75153A0				VOLKSWAGEN
VE0701141	030.109.611.D				3973-EX	SEAT
VE0701141	030.109.611.D				3973-EX	VOLKSWAGEN
VE0701422	030.109.611.AG	V75155A0				VOLKSWAGEN
VE0701460	06D.109.611L					VOLKSWAGEN
VE0701559	03L.109.611					VOLKSWAGEN
VE0710064	467855/ 8194224	VX 1085 AB	VS-4936	50.017.127	1861-ECP	VOLVO
VE0710120	468303	VX 1455 AC	VS-4938	50.017.125	1582-ECP	VOLVO
VE0710201	8148574/ 20441945		VS-4968	50.017.667		VOLVO
VE0710202	20441945					VOLVO
VE0711399	20768519					VOLVO
VE0720155				50.017.858		ASIA MOTORS
VE0760012	1100997	VX 2019 AA	VS-4904	50.017.790	23395-ECSS	SCANIA
VE0760058	232018/ 9639417980	VX 0616 AA	VS-1367	50.017.123	1374-ECSS	SCANIA
VE0760102	1328537	VX 2751 AA			3663-ECBS	SCANIA
VE0760216	1360833					SCANIA
VE0761424	1854801			50.017.086		SCANIA

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MAHLE	ORIGINAL	TRW	EATON	KS	3B	LINHA MOTORA
VE1400820	11341739821/823					BMW
VE1950224	MD-198406					MITSUBISHI
VE1950235	MD-088812					MITSUBISHI
VE1950237	ME-203102					MITSUBISHI
VE1950238	MD-373237					MITSUBISHI
VE1950246	ME-202688				3581-EBN	MITSUBISHI
VE1950262	MD-197106				3465-EBM	MITSUBISHI
VE1950826	MD-085254					MITSUBISHI
VE1951572	MD-162423					MITSUBISHI
VE1961404	87802266					CASE
VE2080848	22212-42520					HYUNDAI
VE2081302	22212-42220					HYUNDAI
VE2081418	22212-23600					HYUNDAI
VE2081418	22212-23600					KIA MOTORS
VE2081553	22212-2B000					HYUNDAI
VE2081553	22212-2B000					KIA MOTORS
VE2110186	ON01-12-121		VS-5282	50.017.851	3548-EBN	KIA MOTORS
VE2110186	ON01-12-121		VS-5282	50.017.851	3548-EBN	MAZDA
VE2110188	OK63C-12-121				3827-EBN	KIA MOTORS
VE2110249	K710-12-121				3299-EN	KIA MOTORS
VE2110249	K710-12-121				3299-EN	MAZDA
VE2111420	OFE 3P 12121					HYSTER
VE2111420	OFE 3P 12121					KIA MOTORS
VE2111420	OFE 3P 12121					YALE
VE3481578	372-1007012					CHERY
VE3551557	1003013GG013					JAC MOTORS
VE5511555	14721-RC0-M00					HONDA
VE5511569	14721-P1J-L00					HONDA

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
026.109.601.D	**VA0590067**	VX 1947 AA	VS-2639		3602-A	FORD
026.109.601.D	**VA0590067**	VX 1947 AA	VS-2639		3602-A	VOLKSWAGEN
026.109.611.A	**VE0590065**				23238-EB	FORD
026.109.611.A	**VE0590065**				23238-EB	VOLKSWAGEN
030.109.601.AC	**VA0700028**	VX 2930 AA	VS-4919	50.017.849	3512-A	VOLKSWAGEN
030.109.601.AS	**VA0701421**	V75154A0				VOLKSWAGEN
030.109.601.G	**VA0700758**				3972-A	SEAT
030.109.601.G	**VA0700758**				3972-A	VOLKSWAGEN
030.109.611.AC	**VE0700027**	VX 2931 AA	VS-4856		3513-EB	VOLKSWAGEN
030.109.611.AG	**VE0701422**	V75155A0				VOLKSWAGEN
030.109.611.D	**VE0701141**				3973-EX	SEAT
030.109.611.D	**VE0701141**				3973-EX	VOLKSWAGEN
032.109.601.M	**VA0700252**	VX 3066 AA				VOLKSWAGEN
032.109.601.P	**VA0700267**	V75152A0				VOLKSWAGEN
032.109.611.L	**VE0700253**	VX 3092 AA				VOLKSWAGEN
032.109.611.Q	**VE0700268**	V75153A0				VOLKSWAGEN
035.109.601.C	**VA0700017**	VX 1368 AA	VS-1646	50.017.396	815-AC	VOLKSWAGEN
035.109.611.F	**VE0700016**	VX 1472 AA	VS-1696	50.017.397	1815-EB	FORD
035.109.611.F	**VE0700016**	VX 1472 AA	VS-1696	50.017.397	1815-EB	VOLKSWAGEN
035.109.601.G	**VA0590066**	VX 1812 AB	VS-4762	50.017.826	3312-A	FORD
035.109.601.G	**VA0590066**	VX 1812 AB	VS-4762	50.017.826	3312-A	VOLKSWAGEN
036.109.601.AE	**VA0700074**	VX 3090 AA			3870-A	VOLKSWAGEN
036.109.601.R	**VA0700009**	VX 2875 AA	VS-5127		3508-A	VOLKSWAGEN
036.109.611.J	**VE0700008**	VX 2989 AA	VS-5223		3509-EB	VOLKSWAGEN
036.109.611.T	**VE0700073**	VX 3091 AA			3871-EB	VOLKSWAGEN
03L.109.601	**VA0701558**					VOLKSWAGEN
03L.109.611	**VE0701559**					VOLKSWAGEN
040.109.601.1	**VA0700050**	VX 0435 AF	VS-868	50.017.715	422-A	VOLKSWAGEN
040.109.601.2	**VA0700020**	VX 0434 AG	VS-869	50.017.716	452-A	VOLKSWAGEN
040.109.612.2	**VE0700049**	VX 0201 AA	VS-850	50.017.788	1452-E	VOLKSWAGEN
048.109.601.E	**VA0700088**	VX 2923 AA	VS-4510		3484-AB	VOLKSWAGEN
048.109.611.B	**VE0700190**					VOLKSWAGEN
048.109.611.C	**VE0700087**	VX 2976 AA	VS-4511		3485-EBS	VOLKSWAGEN
048.109.611.C	**VE0700220**					VOLKSWAGEN
049.109.601.F	**VA0700078**	VX 1202 AA	VS-1356	50.017.385		VOLKSWAGEN
049.109.611.F	**VE0700077**	VX 1203 AA	VS-1357	50.017.386	1825-E	VOLKSWAGEN
056.109.601.A	**VA0700061**	VX 0428 AF	VS-981		422-AC	VOLKSWAGEN
056.109.611.A	**VE0700062**	VX 0429 AA	VS-980	50.017.072	1422-EB	VOLKSWAGEN
058.109.601.C	**VA0700242**			50.004.507	3488-AS	AUDI
058.109.601.C	**VA0700242**			50.004.507	3488-AS	VOLKSWAGEN
058.109.611.E	**VE0700243**			50.004.508	3489-ECBS	AUDI
058.109.611.E	**VE0700243**			50.004.508	3489-ECBS	VOLKSWAGEN
068.109.601.C	**VA0700082**	VX 1210 AA	VS-1358	50.017.016	303-AC	VOLKSWAGEN
068.109.611.C	**VE0700081**	VX 1209 AA	VS-1359	50.017.017	1303 ECB	VOLKSWAGEN
06D.109.601K	**VA0701459**					VOLKSWAGEN
06D.109.611L	**VE0701460**					VOLKSWAGEN
078.109.601.B	**VA0700089**	VX 2975 AA	VS-4546		3486-A	VOLKSWAGEN
0910002	**VE0570036**	VX 0091 AA	VS-618	50.017.705	248-E	PERKINS (MAXION)
0910030/ 0910069	**VA0570033**	VX 0090 AA	VS-1754	50.017.707	250-AMF	FORD
0910030/ 0910069	**VA0570033**	VX 0090 AA	VS-1754	50.017.707	250-AMF	PERKINS (MAXION)
0910041/ 0910073	**VE0570034**	VX 0087 AA	VS-457	50.017.727	1251-EPMF	FORD
0910041/ 0910073	**VE0570034**	VX 0087 AA	VS-457	50.017.727	1251-EPMF	PERKINS (MAXION)
0948.99 / 0948.F4	**VA0440579**				3884-A	CITROËN
0948.99 / 0948.F4	**VA0440579**				3884-A	PEUGEOT
094861/ 9626052980	**VA0440569**				3576-A	PEUGEOT
094866/ 9605936180	**VA0440557**				3542-A	PEUGEOT
094891	**VA0441091**				3798-A	PEUGEOT
094892/ 9628943380	**VA0440561**				3540-A	PEUGEOT

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
0948A9	**VA0440578**				3616-A	CITROËN
0948A9	**VA0440578**				3616-A	PEUGEOT
0949.99 / 0949.E9	**VE0441603 (VE0440599)**				3885-ECB	CITROËN
0949.99 / 0949.E9	**VE0441603 (VE0440599)**				3885-ECB	PEUGEOT
094959	**VE0440588**				23242-E	PEUGEOT
094962/ 9629861180	**VE0440301**					PEUGEOT
094972/ 9605936280	**VE0440589**					PEUGEOT
0949A6/ 962981180	**VE0440297**				3541-ECB	PEUGEOT
0949A8	**VE0440598**				3617-ECBS	CITROËN
0949A8	**VE0440598**				3617-ECBS	PEUGEOT
1003012GG013	**VA3551556**					JAC MOTORS
1003013GG013	**VE3551557**					JAC MOTORS
10241743	**VA0140183**					GENERAL MOTORS
1100997	**VE0760012**	VX 2019 AA	VS-4904	50.017.790	23395-ECSS	SCANIA
11341739820/822	**VA1401226**					BMW
11341739821/823	**VE1400820**					BMW
12550909	**VE0140184**				3163-ECP	GENERAL MOTORS
12615936	**VA0141574**					GENERAL MOTORS
1319081	**VA0760215**					SCANIA
13201-00Q0H / 7701472986	**VA0181606 (VA0180427)**				3862-A	NISSAN
13201-3AC0A	**VA0031608**					NISSAN
13201-4589R	**VA0031604**					RENAULT
13201-50K00	**VA0030331**					NISSAN
13201-5X00B	**VA0031506**					NISSAN
13201-CP50A	**VA0031570**					NISSAN
13202-00Q0K / 7701473004	**VE0181607 (VE0180438)**				3863-EB	NISSAN
13202-0970R / 13202-EN20B	**VE0031605**					RENAULT
13202-3HC0A	**VE0031609**					NISSAN
13202-50K02	**VE0031124**					NISSAN
13202-5X00B	**VE0031507**					NISSAN
13202-EN20B / 13202-0970R	**VE0031605**					NISSAN
1328537	**VE0760102**	VX 2751 AA			3663-ECBS	SCANIA
1360833	**VE0760216**					SCANIA
137117601271	**VA0631405**					TOYOTA
137157601471	**VE0631406**					TOYOTA
135957	**VA0210147**				420-A	CUMMINS
136-0819	**VE0110233**		VS 3140			CATERPILLAR
136-0819	**VE0110233**		VS 3140			GENERAL MOTORS
13711-0L010 / 13711-30040	**VA0631453**					TOYOTA
13711-0L020	**VA0630213**					TOYOTA
13711-15090	**VA0630205**					TOYOTA
13711-17010	**VA0630240**					TOYOTA
13711-22030	**VA0630207**					TOYOTA
13711-37030	**VA0631550**					TOYOTA
13711-58021	**VA0630259**				3892-AN	TOYOTA
13715-0L010 / 13715-30040	**VE0631454**					TOYOTA
13715-0L020	**VE0630214**					TOYOTA
13715-16060	**VE0630206**					TOYOTA
13715-17010	**VE0630241**				3779-EBN	TOYOTA
13715-22030	**VE0630208**					TOYOTA
13715-37040	**VE0631551**					TOYOTA
13715-58041	**VE0630260**				3893-EPN	TOYOTA

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
1456855	**VA0111407**					CATERPILLAR
1456857	**VE0111408**					CATERPILLAR
14711-383-000	**VA0510045**	VX 0786 AA	VS-4906	50.017.778	23293-AP	HONDA
14711-397-6300	**VA0510116**	VX 1473 AA	VS-4917	50.017.772	3408-AC	HONDA
14711-413-000	**VA0510191**			50.017.743		HONDA
14711-428-000	**VA0510130**			50.017.771		HONDA
14711-440-0030-BR	**VA0510115**	VX 0989 AA	VS-4985			HONDA
14711-GN5-9130	**VA0510126**	VX 3043 AA				HONDA
14711-KCY-670	**VA0510269**					HONDA
14711-KGA-B000-R	**VA0510195**	VX 3207 AA				HONDA
14711-KGO-000	**VA0510132**			50.017.773		HONDA
14711-KL3-670	**VA0510134**			50.017.843		HONDA
14711-KPF-9000-RW1	**VA0510128**	VX 3131 AA				HONDA
14711-KRM-8400	**VA0510197**	VX 3273 AA				HONDA
14711-KSS-9000	**VA0510227**	VX 3204 AA				HONDA
14711-KVS-900	**VA0511425**					HONDA
14711-KW1-9000-R	**VA0510070**	VX 2009 AA	VS-4995	50.017.785	1001-AC	HONDA
14711-KWG-600	**VA0511477**					HONDA
14711-KYO-8901-R	**VA0510029**	VX 2324 AA	VS-4993	50.017.774	3416-AC	HONDA
14711-PO8000	**VA0510209**					HONDA
14711-PWA-000	**VA0510263**			50.017.926		HONDA
14711-PWC-000	**VA0510265**			50.017.928		HONDA
14711-RC0-M00	**VA5511554**					HONDA
14721-RC0-M00	**VE5511555**					HONDA
14711-RNA-A000	**VA0510257**			50.017.930		HONDA
14711-RNE-A00	**VA5511568**					HONDA
14721-383-000	**VE0510046**	VX 0787 AA	VS-4918	50.017.779	23293-EP	HONDA
14721-413-000	**VE0510192**			50.017.744		HONDA
14721-437-0000	**VE0510117**	VX 0990 AA	VS-4997	50.017.781	23409-ECSS	HONDA
14721-471-000	**VE0510131**			50.017.780		HONDA
14721-GF6-0101	**VE0510127**	VX 3042 AA				HONDA
14721-KFO-000	**VE0510135**			50.017.784		HONDA
14721-KGA-B000-R	**VE0510196**	VX 3208 AA				HONDA
14721-KGO-000	**VE0510133**			50.017.782		HONDA
14721-KPF-9000-RW1	**VE0510129**	VX 3132 AA				HONDA
14721-KSS-9000	**VE0510228**	VX 3242 AA				HONDA
14721-KVS-900	**VE0511426**					HONDA
14721-KW1-9000-R	**VE0510069**	VX 2018 AA	VS-4996	50.017.786	1002-ECB	HONDA
14721-KWG-600	**VE0511478**					HONDA
14721-KYO-8901-R	**VE0510030**	VX 2325 AA	VS-4994	50.017.783	23417-ECBS	HONDA
14721-P1J-L00	**VE5511569**					HONDA
14721-PO8000	**VE0510210**			50.017.635		HONDA
14721-PWA-000	**VE0510264**			50.017.927		HONDA
14721-PWC-000	**VE0510266**			50.017.929		HONDA
1515743/ 1333230	**VA0760103**	VX 2750 AA			3663-ECBS	SCANIA
1547492	**VA0710203**		VS-5143	50.017.689		VOLVO
1632442	**VA0111411**					CATERPILLAR
17421-KRM-8400	**VE0510198**	VX 3274 AA				HONDA
1785076	**VA0760225**					SCANIA
1810086-C2	**VE0380229**					INTERNATIONAL
1818580-C1	**VA0380231**					INTERNATIONAL
1823875-C1	**VA0381304**				3968-AC	INTERNATIONAL
1824838-C1	**VE0380230**					INTERNATIONAL
1824840-C1	**VE0381312**					INTERNATIONAL
1854801	**VE0761424**			50.017.086		SCANIA
1883122	**VE0111412**					CATERPILLAR
1887056	**VA0761423**			50.017.087		SCANIA
1S4G.6507.CB	**VA0591471**					FORD

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
1S7Z-6505-AA	**VE0590256**				3095-EC	FORD
1S7Z-6507-AA	**VA0590255**				3094-AC	FORD
20441945	**VE0710202**					VOLVO
20740798	**VA0711398**					VOLVO
20768519	**VE0711399**					VOLVO
2102529	**VE0111414**					CATERPILLAR
2102542	**VA0111413**					CATERPILLAR
22211-23600	**VA2081417**					HYUNDAI
22211-23600	**VA2081417**					KIA MOTORS
22211-2B400	**VA2081552**					HYUNDAI
22211-2B400	**VA2081552**					KIA MOTORS
22211-42220	**VA2081301**					HYUNDAI
22211-42520	**VA2080849**					HYUNDAI
22212-23600	**VE2081418**					HYUNDAI
22212-23600	**VE2081418**					KIA MOTORS
22212-2B000	**VE2081553**					HYUNDAI
22212-2B000	**VE2081553**					KIA MOTORS
22212-42220	**VE2081302**					HYUNDAI
22212-42520	**VE2080848**					HYUNDAI
232018/ 9639417980	**VE0760058**	VX 0616 AA	VS-1367	50.017.123	1374-ECSS	SCANIA
2335469	**VA0111415**					CATERPILLAR
2335470	**VE0111416**					CATERPILLAR
24578793	**VE0141573**					GENERAL MOTORS
24579670	**VE0141576**					GENERAL MOTORS
2638552/ 3774052	**VA0140104**	VX 0220 AB	VS-1202	50.017.701	137-A	GENERAL MOTORS
2787538/ 3786360	**VA0140108**	VX 0221 AA +3	VS-865	50.017.702	137-A+3	GENERAL MOTORS
2L2Z-6505-BA	**VE0590222**					FORD
2L2Z-6507-BA	**VA0590221**					FORD
311.109.612	**VE0700022**	VX 0366 AD	VS-1167	50.017.738	1453-E	VOLKSWAGEN
31431315	**VA0570024**	VX 0602 AA	VS-1160	50.017.792	249-AC	GENERAL MOTORS
31431315	**VA0570024**	VX 0602 AA	VS-1160	50.017.792	249-AC	PERKINS (MAXION)
31431851	**VE0570023**	VX 0604 AA	VS-1161	50.017.793	1249-ECP	GENERAL MOTORS
31431851	**VE0570023**	VX 0604 AA	VS-1161	50.017.793	1249-ECP	PERKINS (MAXION)
3142A051	**VE0570649**					PERKINS (MAXION)
31431261/ 0910001	**VA0570035**	VX 0092 AB	VS-620		247-A	PERKINS (MAXION)
31431723/ 70910011	**VA0570111**	VX 0440 AA	VS-1423	50.017.739	1498-ACP	FORD
31431723/ 70910011	**VA0570111**	VX 0440 AA	VS-1423	50.017.739	1498-ACP	PERKINS (MAXION)
3418020/ 3068828/ 3800638	**VA0210237**					CUMMINS
3418021/ 3070159/ 3800639	**VE0210236**					CUMMINS
3450537001	**VA0480080**	VX 1565 AA	VS-1129	50.017.757	843-AC	MERCEDES-BENZ
3450500127/7005	**VE0480079**	VX 1566 AA	VS-1128	50.017.758	1843-ECP	MERCEDES-BENZ
3460530001	**VA0480048**	VX 0383 AA	VS-1157	50.017.044	229-AC	MERCEDES-BENZ
3460530005	**VE0480047**	VX 0384 AA	VS-1158	50.017.056	1229-EC	MERCEDES-BENZ
352211	**VA0760013**	VX 1784 AA	VS-4902	50.017.789	1374-ACB 20°	SCANIA
3520530101	**VA0480004**	VX 0246 AE	VS-1177	50.017.042	226-AC	MERCEDES-BENZ
3520531505	**VE0480003**	VX 0282 AB	VS-1178	50.017.049	1226-ECB	MERCEDES-BENZ
3550530001	**VA0480091**	VX 0846 AA	VS-1136	50.017.119	3262-AC	MERCEDES-BENZ
3550530005	**VE0480090**	VX 0847 AA	VS-1137	50.017.120	3263-ECB	MERCEDES-BENZ
3660500227	**VE0480005**	VX 2389 AA	VS-2535	50.017.390	23260-ECB	MERCEDES-BENZ
366.050.1226	**VA0480007**	VX 2811 AA	VS-2770	50.017.794	3260-ACB-20°	MERCEDES-BENZ
3695455/ 3758810	**VA0140106**	VX 0013 AA	VS-0040	50.017.700	135-A	GENERAL MOTORS
3724778/ 3989084	**VE0140105**	VX 0219 AB - STD	VS-1201	50.017.721	1138-EG	GENERAL MOTORS
372-1007011	**VA3481577**					CHERY
372-1007012	**VE3481578**					CHERY

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
3732758	**VE0140107**	VX 0238 AA +3	VS-1335	50.017.722	1138-EG+3	GENERAL MOTORS
3760530001	**VA0480096**	VX 2390 AA (VA1648A)	VS-2587	50.017.389	2026-AC 30°	MERCEDES-BENZ
3760530101	**VA0480006**	VX 2388 AA	VS-1814	50.017.391	3260-ACB	MERCEDES-BENZ
3760500027/ 3660500027	**VE0480097**	VX 2391 AA (VA1751A)	VS-2091	50.017.055	23260-ECB	MERCEDES-BENZ
3786361/ 3995685	**VA0140110**	VX 0222 AA +15	VS-866	50.017.703	137-A+15	GENERAL MOTORS
3801356 / 3033234	**VA0210446**					CUMMINS
3803515	**VA0211465**					CUMMINS
3803519	**VE0210149**		VS-985			CUMMINS
3803524	**VE0210148**		VS-0985			CUMMINS
3803529	**VE0211466**					CUMMINS
3803995 / 3803996 / 3895477	**VE0211261**					CUMMINS
3920867/ 3802355	**VA0210151**		VS-4307		3466-AC	CUMMINS
3920867/ 3802356	**VA0210151**		VS-4307		3466-AC	FORD
3920867/ 3802356	**VA0210151**		VS-4307		3466-AC	VOLKSWAGEN
3920868/ 3802356	**VE0210150**		VS-4306		3467-ECB	CUMMINS
3920868/ 3802356	**VE0210150**		VS-4306		3467-ECB	FORD
3920868/ 3802356	**VE0210150**		VS-4306		3467-ECB	VOLKSWAGEN
3921444/ 3802085	**VE0210152**		VS-4308		3335-ECP	CUMMINS
3921444/ 3802085	**VE0210152**		VS-4308		3335-ECP	VOLKSWAGEN
3921444/ 3902254	**VE0210152**		VS-4308		3335-ECP	FORD
3924492/ 3802463	**VA0210153**		VS-4309		3334-AC	CUMMINS
3924492/ 3802463	**VA0210153**		VS-4309		3334-AC	VOLKSWAGEN
3924492/ 3902253	**VA0210153**		VS-4309		3334-AC	FORD
3940734	**VE0210443**				3977-ECB	CUMMINS
3940735	**VA0210442**				3976-AC	CUMMINS
3942588/ 3800340	**VA0211371**				4024-AC	CUMMINS
3942589/ 3800341	**VE0211372**				4025-ECB	CUMMINS
4089761	**VA0211427**					CUMMINS
4089762	**VE0211428**					CUMMINS
4220500127/ 4420500227	**VE0480055**	VX 2600 AA	VS-4362		1839-ECB	MERCEDES-BENZ
4220500226/ 4420500526	**VA0480056**	VX 2387 AA	VS-2520		1839-ACB	MERCEDES-BENZ
4239917/ 4460697	**VA0250060**	VX 2220 AA	VS-2556	50.017.714	175-AC	FIAT
43109611	**VE0700021**	VX 0785 AB	VS-1317	50.017.728	1305-ECP	VOLKSWAGEN
43401180	**VA0250002**	VX 0514 AB	VS-992	50.017.170	380-AC	FIAT
46470637/ 46559031	**VA0250018**	VX 2028 AA	VS-4897	50.017.756	3234-AC	FIAT
46553046	**VA0250162**	VX3128AA			3800-AC	FIAT
46553047	**VE0250167**	VX 3129 AA				FIAT
46553048	**VA0250166**				3558-AC	FIAT
46553049	**VE0250163**				3559-ECBS	FIAT
467855/ 8194224	**VE0710064**	VX 1085 AB	VS-4936	50.017.127	1861-ECP	VOLVO
468302	**VA0710121**	VX 1594 AA	VS-4937	50.017.124	582-AC	VOLVO
468303	**VE0710120**	VX 1455 AC	VS-4938	50.017.125	1582-ECP	VOLVO
469240/ 4675002/ 8194223	**VA0710063**	VX 0588 AB	VS-4934	50.017.126	860-AC	VOLVO
500355778	**VA0011469**			50.017.897		IVECO
504069199	**VA0011475**					IVECO
504072531	**VA0011467**					IVECO
504081062	**VE0011468**					IVECO
504293892	**VE0011470**			50.017.898		IVECO
504378070	**VE0011616**					IVECO
52285384	**VA0140041**	VX 2034 AA	VS-1660	50.017.753	3045-ECP	GENERAL MOTORS
5410500226	**VA0480193**		VS-5037	50.017.637	3856-AC	MERCEDES-BENZ
5410500227	**VE0480194**	VX 2951 AB	VS-5225		3857-ECB	MERCEDES-BENZ
55195497	**VA0250271**	V76562A0			3956-AC	FIAT
55195498	**VE0250272**	V76563A0			3997-ECB	FIAT

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
55218807	**VE0251476**			50.017.972		FIAT
55224590	**VA0251610**					FIAT
55231699	**VE0251611**					FIAT
55563529	**VE0141575**					GENERAL MOTORS
55569449	**VA0141579**					GENERAL MOTORS
55569450	**VE0141580**					GENERAL MOTORS
55570709	**VE0141582**					GENERAL MOTORS
55570710	**VA0141581**					GENERAL MOTORS
59112	**VA0590093**	VX 0250 AA	VS-1205	50.017.749	3038-A	FORD
5973128	**VE0250053**	VX 2400 AA	VS-2691	50.017.787	1175-ECSS	FIAT
5973129	**VE0250059**	VX 2221 AA	VS-2557	50.017.737	1383-EC	FIAT
59852970	**VE0250001**	VX 1628 AA	VS-993	50.017.171	1380-EC	FIAT
5HH-12111-00	**VA0520199**	VX 3285 AA				YAMAHA
5HH-12121-00	**VE0520200**	VX 3286 AA				YAMAHA
5I-7738	**VA0111409**					CATERPILLAR
5I-7739	**VE0111410**					CATERPILLAR
5S-6449	**VE0110142**		VS-968			CATERPILLAR
5S-6452	**VA0110143**		VS-0969			CATERPILLAR
6010531901	**VA0570250**				3344-ACB	MERCEDES-BENZ
6010532827	**VE0570230**		VS-4892	50.017.847		MERCEDES-BENZ
60811153/ 7766564	**VA0250168**				3736-AC	ALFA ROMEO
60811153/ 7766564	**VA0250168**				3736-AC	FIAT
60811154/ 7766565	**VE0250169**					ALFA ROMEO
60811154/ 7766565	**VE0250169**					FIAT
6110530005	**VE0480251**				3659-EN	MERCEDES-BENZ
6110530101	**VA0480233**				3658-AN	MERCEDES-BENZ
622804603014	**VA0130099**	VX 0692 AA	VS-2696	50.017.767	3390-AC	MWM
675046-C4	**VA0380226**					INTERNATIONAL
676687-C4	**VA0380228**					INTERNATIONAL
676865-C4	**VE0380227**					INTERNATIONAL
6N-9915	**VA0110145**		VS-2401			CATERPILLAR
6N-9916/ 1487455	**VE0110146**		VS-2402		23210-EBS	CATERPILLAR
7004.00600500.8	**VA0060902**					AGRALE
7004.00600600.6	**VE0060906**					AGRALE
7006.00600500.3	**VA0060903**					AGRALE
7006.00600600.1	**VE0060323**					AGRALE
7007.00600500.1	**VA0060904**					AGRALE
7007.00600600.9	**VE0060907**					AGRALE
7008.00600500.9	**VC0060905**					AGRALE
7083242	**VE0140370**					FIAT
7083246 / 90215492	**VA0140086**	VX 2331 AA	VS-4899	50.017.835	3146-AC	FIAT
7085036	**VA0251614**					FIAT
7085037	**VE0251615**					FIAT
70910001/4	**VA0570032**	VX 0256 AA	VS-887	50.017.704	247-A C/P	PERKINS (MAXION)
70910002	**VE0570031**	VX 0257 AA	VS-886	50.017.706	248-E C/P	PERKINS (MAXION)
70910012	**VE0570112**	VX 0441 AA	VS-1424	50.017.740	1498-ECP	FORD
70910012	**VE0570112**	VX 0441 AA	VS-1424	50.017.740	1498-ECP	PERKINS (MAXION)
70910017	**VA0570038**	VX 1912 AA	VS-2815	50.017.769	3392-AC	GENERAL MOTORS
70910017	**VA0570038**	VX 1912 AA	VS-2815	50.017.769	3392-AC	PERKINS (MAXION)
70910018	**VE0570037**	VX 1913 AA	VS-2816	50.017.770	3393-ECB	GENERAL MOTORS
70910018	**VE0570037**	VX 1913 AA	VS-2816	50.017.770	3393-ECB	PERKINS (MAXION)
70910025/35	**VA0570123**	VX 2299 AA	VS-2831		3342-AC	GENERAL MOTORS
70910025/35	**VA0570123**	VX 2299 AA	VS-2831		3342-AC	PERKINS (MAXION)
70910038	**VE0570122**	VX 2298 AA	VS-2833			GENERAL MOTORS
70910038	**VE0570122**	VX 2298 AA	VS-2833			PERKINS (MAXION)
70910053	**VA0570250**				3344-ACB	FORD
70910053	**VA0570250**				3344-ACB	GENERAL MOTORS
70910053	**VA0570250**				3344-ACB	PERKINS (MAXION)

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
70910054	**VE0570230**				23345-ECBS	FORD
70910054	**VE0570230**				23345-ECBS	GENERAL MOTORS
70910061	**VA0571369**					PERKINS (MAXION)
70910076	**VE0570230**		VS-4892	50.017.847		PERKINS (MAXION)
70910080	**VE0570232**				3859-EBN	FORD
70910080	**VE0570232**				3859-EBN	PERKINS (MAXION)
70910081	**VA0570231**				3858-ACB	FORD
70910081	**VA0570231**				3858-ACB	PERKINS (MAXION)
70910096 (70910037)	**VA0570657**				3388-ACB	GENERAL MOTORS
70910096 (70910037)	**VA0570657**				3388-ACB	PERKINS (MAXION)
7301820	**VA0010211**				3510-ACB	IVECO
7301820	**VA0010211**				3510-ACB	PEUGEOT
7323108/ 3995603	**VE0140109**	VX 0239 AA +15	VS-1481	50.017.723	1138-EG+15	GENERAL MOTORS
7547400	**VA0250159**	VX 2047 AB	VS-2873	50.017.745	1826-AC	FIAT
7574742	**VE0250051**	VX 2608 AA	VS-4531	50.017.762	3321-ECB	FIAT
7581717000	**VE0440583**				1246-EC	PEUGEOT
7597080	**VE0250158**	VX 2392 AA			1826 ECB	FIAT
7617500	**VA0250054**	VX 2399 AA	VS-2692	50.017.720	856-AC	FIAT
7633752/ 46470638	**VE0250019**	VX 2029 AA	VS-4898		23234-ECS	FIAT
7700855926	**VA0180423**					RENAULT
7700855927	**VE0180424**					RENAULT
7700865449	**VE0180396**				3715-EB	RENAULT
7701469266	**VA0180421**				3620-A	RENAULT
7701469269	**VE0180422**				3621-EB	RENAULT
7701471279	**VA0180415**				3864-A	RENAULT
7701471280	**VE0180416**					RENAULT
7701472669	**VA0181483**					RENAULT
7701472670	**VE0181484**					RENAULT
7701472986 / 13201-00Q0H	**VA0181606 (VA0180427)**				3862-A	RENAULT
7701473004 / 13202-00Q0K	**VE0181607 (VE0180438)**				3863-EB	RENAULT
7701471378/ 7700107602	**VA0180124**	VX 3101 AA			3598-A	RENAULT
7701473354/ 8200054762	**VE0180125**	VX 3102 AA			3599-EB	RENAULT
7702220678	**VA0180389**				3308-AC	RENAULT
7722907	**VA0250052**	VX 2607 AA	VS-4530	50.017.761	3320-AC	FIAT
7735898	**VA0250160**				3600-AC	FIAT
7735899	**VE0250161**					FIAT
78MU-6505-B	**VE0590092**	VX 0757 AA	VS-1204	50.017.729	1326-E	FORD
78MU-6507-A	**VA0590094**	VX 0756 AA	VS-1132	50.017.708	326-A	FORD
7932582418	**VA0440566**				381-AC	PEUGEOT
7W-8064	**VA0110232**		VS 3124		3614-AC	CATERPILLAR
7W-8064	**VA0110232**		VS 3124		3614-AC	GENERAL MOTORS
800558	**VA0230119**	VX 0023 AA	VS-0016	50.017.759	3272-A	FORD WILLYS
800558	**VE0230118**	VX 0088 AA	VS-770	50.017.760	3273-E	FORD WILLYS
8148574/ 20441945	**VE0710201**		VS-4968	50.017.667		VOLVO
836646356	**VA0310273**					VALMET / VALTRA
836646357	**VE0310274**					VALMET / VALTRA
84AU-6505-A	**VE0590042**	VX 1319 AA	VS-2465	50.017.748	3037-EP	FORD
84AU-6507-A	**VA0590043**	VX 1320 AA	VS-2489	50.017.747	3036-A	FORD
84AU-6507-B/ 0291096011	**VA0590044**	VX 1321 AA	VS-1492	50.017.797	814-AC	FORD
84AU-6507-B/ 0291096011	**VA0590044**	VX 1321 AA	VS-1492	50.017.797	814-AC	VOLKSWAGEN
87802264	**VA1961403**					CASE
87802266	**VE1961404**					CASE
89BM-6507AA	**VA0590172**					FORD
89BM-6507AA	**VA0590181**				3052-AC	FORD

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
8H-1993	**VA0110140**		VS-0696			CATERPILLAR
8H-1994	**VE0110141**		VS-460			CATERPILLAR
8N-0875	**VE0110144**		VS-1406			CATERPILLAR
90136614/6613	**VA0140114**	VX 1220 AA	VS-1415	50.017.713	344-AC	GENERAL MOTORS
90136615	**VA0140114 0,076**				344-AC+3	GENERAL MOTORS
90136616	**VA0140114 0,381**				344-AC+15	GENERAL MOTORS
90136617	**VA0140114 0,762**				344-AC+30	GENERAL MOTORS
90136620/6621	**VE0140113**	VX 1221 AA	VS-1658	50.017.736	1344-ECP	GENERAL MOTORS
90136622	**VE0140113 0,076**				1344-ECP+3	GENERAL MOTORS
90136624	**VE0140113 0,762**				1344-ECP+30	GENERAL MOTORS
90215492 / 7083246	**VA0140086**	VX 2331 AA	VS-4899	50.017.835	3146-AC	GENERAL MOTORS
90220119	**VA0140040**	VX 1699 AA	VS-1980	50.017.752	3109-AC	GENERAL MOTORS
90323518/ 642763	**VA0140015**	VX 2332 AA	VS-4261	50.017.754	3136-AC	GENERAL MOTORS
90323756	**VE0140039**	VX 2059 AA			23109-ECP	GENERAL MOTORS
90.323.523/ 642890	**VE0140014**	VX 2333 AA	VS-4262	50.017.755	3137-ECB	GENERAL MOTORS
90324412	**VE0140085**	VX 2334 AA	VS-4900	50.017.836	3147-ECB	GENERAL MOTORS
90410813/ 641325	**VE0140071**	VX 2274 AA	VS 5086		23141-ECBS	GENERAL MOTORS
90412277/641022	**VA0140072**	VX 2909 AA	VS-5094		3140-AC	GENERAL MOTORS
90412712	**VA0140076**	VX 2463 AA		50.017.837	3138-AC	GENERAL MOTORS
90412974	**VE0140075**	VX 2925 AA		50.017.838	3139-EC	GENERAL MOTORS
9060500326	**VA0480244**	VX 3004 AB		50.017.655	3846-AC	MERCEDES-BENZ
9060500327	**VE0480245**			50.017.909	3847-ECB	MERCEDES-BENZ
9153501680	**VA0441040**					PEUGEOT
9153501780	**VA0440551**				3301-AC	CITROËN
9153501780	**VA0440551**				3301-AC	PEUGEOT
9153501880	**VE0441382**					PEUGEOT
9153501980	**VE0440585**				23301-ECB	CITROËN
9153501980	**VE0440585**				23301-ECB	PEUGEOT
9.2260.460.0054	**VA0130011**	VX 0304 AA	VS-1134	50.017.717	565-AC	FORD
9.2260.460.0054	**VA0130011**	VX 0304 AA	VS-1134	50.017.717	565-AC	MWM
9.229.0.460.003.4	**VE0130098**	VX 1975 AA	VS-2695	50.017.768	3391-ECB	MWM
9.3080.460.0024	**VE0130010**	VX 0305 AA	VS-1135	50.017.199	1565-ECB	FORD
9.3080.460.0024	**VE0130010**	VX 0305 AA	VS-1135	50.017.199	1565-ECB	MWM
93248325	**VA0140026**	VX 2996 AA			3578-AC	GENERAL MOTORS
93248326	**VE0140025**	VX 2997 AA			3579-ECB	GENERAL MOTORS
93333561	**VA0140226**	VX 3176 AA				GENERAL MOTORS
93333562	**VE0140248**	VX3177AA				GENERAL MOTORS
93361392	**VA0141431**					GENERAL MOTORS
93399245	**VA0141396**	V75591A0				GENERAL MOTORS
93399247	**VE0141397**	V76379A0				GENERAL MOTORS
9350111780	**VE0440581**				23241-ECP	GENERAL MOTORS
9350111780	**VE0440581**				23241-ECP	PEUGEOT
9350111580/480	**VA0440567**				3241-AC	GENERAL MOTORS
9350111580/480	**VA0440567**				3241-AC	PEUGEOT
9.4070.460.0024	**VE0130278**				3547-ECBS	GENERAL MOTORS
9.4070.460.0024	**VE0130278**				3547-ECBS	MWM
9.4070.460.0034	**VA0130277**				3546-AC	GENERAL MOTORS
9.4070.460.0034	**VA0130277**				3546-AC	MWM
94621039/1040	**VA0140084 0,076**				332-AC+3	GENERAL MOTORS
94621041	**VA0140084 0,152**				332-AC+06	GENERAL MOTORS
94621045	**VE0140083 0,076**				1332-ECP+3	GENERAL MOTORS
94621047	**VE0140083 0,152**				1332-ECP+06	GENERAL MOTORS
94621104/1038	**VA0140084**	VX 1550 AA	VS-1299	50.017.710	332-AC	GENERAL MOTORS
94621105/1043	**VE0140083**	VX 0365 AC	VS-1302	50.017.732	1332-ECP	GENERAL MOTORS
94621607	**VA0140084 0,304**				332-AC+12	GENERAL MOTORS
94621609	**VE0140083 0,304**				1332-ECP+12	GENERAL MOTORS

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
9.610.0.460.002.4	**VE0130100**	VX 2124 AA	VS-2824	50.017.844	23423-ECBS	MWM
9.610.0.460.002.4	**VE0130100**	VX 2124 AA	VS-2824	50.017.844	23423-ECBS	VOLKSWAGEN
9.610.0.460.003.4	**VA0130101**	VX 2123 AA	VS-2825	50.017.844	3422-AC	MWM
9.610.0.460.003.4	**VA0130101**	VX 2123 AA	VS-2825	50.017.844	3422-AC	VOLKSWAGEN
96101887	**VE0440596**				4011-ECB	CITROËN
96101887	**VE0440596**				4011-ECB	PEUGEOT
96101886/ 96183535	**VA0440575**				4010-A	CITROËN
96101886/ 96183535	**VA0440575**				4010-A	PEUGEOT
9.612.0.460.001.4 / 9.612.8.460.001.4	**VE0130239**					MWM
96172597	**VA0440571**					CITROËN
96172597	**VA0440571**					PEUGEOT
96172795	**VE0440590**					CITROËN
96172795	**VE0440590**					PEUGEOT
97531046	**VE0440593**				4035-EPN	CITROËN
97531046	**VE0440593**				4035-EPN	PEUGEOT
97531079	**VA0440572**					CITROËN
97531079	**VA0440572**					PEUGEOT
98468338	**VA0250513**				3586-ACB	CITROËN
98468338	**VA0250513**				**3586-ACB**	**FIAT**
98468338	**VA0250513**				**3586-ACB**	**IVECO**
98468338	**VA0250513**				**3586-ACB**	**PEUGEOT**
98468338	**VA0250513**				**3586-ACB**	**RENAULT**
99432837EC54-0652	**VE0010212**					**IVECO**
99432837EC54-0652	**VE0010212**					**PEUGEOT**
928M-650-F2-A	**VA0590180**		**VS-5294**		**3066-AC**	**FORD**
948M-6505-D2A	**VE0590182**		**VS-5295**		**3067-ECB**	**FORD**
97BM-6505-AA	**VE0590173**				**3053-ECB**	**FORD**
97MM6507BB2B	**VA0590179**			**50.017.870**	**3064-AC**	**FORD**
9L-7682	**VA0110235**				**561-A**	**CATERPILLAR**
9L-7683	**VE0110234**				**1561-EB**	**CATERPILLAR**
A4420160391	**VC0481565**					**MERCEDES-BENZ**
A4570500327	**VE0481437**					**MERCEDES-BENZ**
A5410160791	**VC0481345**				**3875-EC**	**MERCEDES-BENZ**
A5410530101	**VA0481436**					**MERCEDES-BENZ**
A6510500127	**VE0481564**					**MERCEDES-BENZ**
A6510530101	**VA0481563**					**MERCEDES-BENZ**
A9060160791	**VC0481344**				**3874-EC**	**MERCEDES-BENZ**
AM5G-6505-AB	**VE0591472**					**FORD**
AS65.6507.AA	**VA0591474**					**FORD**
B-27220	**VE0230118**	**VX 0088 AA**	**VS-770**	**50.017.760**	**3273-E**	**JEEP**
F57Z-6505-A	**VE0591462**					**FORD**
F57Z-6507-A	**VA0591461**					**FORD**
F77Z-6505-AA/ 90TM-6505-AB	**VE0590276**				**3043-ECP**	**FORD**
K710-12-111	**VA2110229**		**VS-5284**	**50.017.866**	**3298-AN**	**KIA MOTORS**
K710-12-111	**VA2110229**		**VS-5284**	**50.017.866**	**3298-AN**	**MAZDA**
K710-12-121	**VE2110249**				**3299-EN**	**KIA MOTORS**
K710-12-121	**VE2110249**				**3299-EN**	**MAZDA**
MD-085253	**VA1950825**					**MITSUBISHI**
MD-085254	**VE1950826**					**MITSUBISHI**
MD-088811	**VA1950234**					**MITSUBISHI**
MD-088812	**VE1950235**					**MITSUBISHI**
MD-159502	**VA1950261**				**3464-AN**	**MITSUBISHI**
MD-162422	**VA1951571**					**MITSUBISHI**
MD-162423	**VE1951572**					**MITSUBISHI**
MD-197106	**VE1950262**				**3465-EBM**	**MITSUBISHI**
MD-198404	**VA1950223**					**MITSUBISHI**

ORIGINAL	MAHLE	TRW	EATON	KS	3B	LINHA MOTORA
MD-198406	**VE1950224**					**MITSUBISHI**
MD-373237	**VE1950238**					**MITSUBISHI**
ME-202687	**VA1950247**				**3580-AN**	**MITSUBISHI**
ME-202688	**VE1950246**				**3581-EBN**	**MITSUBISHI**
ME-203101	**VA1950236**					**MITSUBISHI**
ME-203102	**VE1950237**					**MITSUBISHI**
OFE 3P 12121	**VE2111420**					**HYSTER**
OFE 3P 12121	**VE2111420**					**KIA MOTORS**
OFE 3P 12121	**VE2111420**					**YALE**
OK 9541 2111	**VA2111419**					**HYSTER**
OK 9541 2111	**VA2111419**					**KIA MOTORS**
OK 9541 2111	**VA2111419**					**YALE**
OK63C-12-121	**VE2110188**				**3827-EBN**	**KIA MOTORS**
OK65D12111	**VA2110187**		**VS-5296**			**KIA MOTORS**
ON01-12-111	**VA2110185**		**VS-5281**	**50.017.850**	**3548-APN**	**KIA MOTORS**
ON01-12-111	**VA2110185**		**VS-5281**	**50.017.850**	**3548-APN**	**MAZDA**
ON01-12-121	**VE2110186**		**VS-5282**	**50.017.851**	**3548-EBN**	**KIA MOTORS**
ON01-12-121	**VE2110186**		**VS-5282**	**50.017.851**	**3548-EBN**	**MAZDA**
R-90692	**VE0430542**					**JOHN DEERE**
R-97490	**VA0430546 0,381**					**JOHN DEERE**
R-97492	**VE0430542 0,381**					**JOHN DEERE**
R-98062	**VA0430546**					**JOHN DEERE**
X56G6505B2A	**VE0590178**			**50017801**		**FORD**
XS6E6505AB / 7S6G.6505.AA	**VE0590171**	**V76176A0**			**3063-ECB**	**FORD**
XS6E6505BB / YS4E.6505.BA	**VE0590175**	**V74470A0**	**VS-5127**		**3093-ECBS**	**FORD**
XS6E6507AA	**VA0590170**	**V76175A0**			**3062-AC**	**FORD**
YS4E6507AB	**VA0591473**					**FORD**

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
V74469A0	**VA0590174**		VS-4939		3092-AC	FORD
V74470A0	**VE0590175**	XS6E6505BB / YS4E.6505.BA	VS-5127		3093-ECBS	FORD
V75152A0	**VA0700267**	032.109.601.P				VOLKSWAGEN
V75153A0	**VE0700268**	032.109.611.Q				VOLKSWAGEN
V75154A0	**VA0701421**	030.109.601.AS				VOLKSWAGEN
V75155A0	**VE0701422**	030.109.611.AG				VOLKSWAGEN
V75591A0	**VA0141396**	93399245				GENERAL MOTORS
V76175A0	**VA0590170**	XS6E6507AA			3062-AC	FORD
V76176A0	**VE0590171**	XS6E6505AB / 7S6G.6505.AA			3063-ECB	FORD
V76379A0	**VE0141397**	93399247				GENERAL MOTORS
V76562A0	**VA0250271**	55195497			3956-AC	FIAT
V76563A0	**VE0250272**	55195498			3997-ECB	FIAT
VX 0013 AA	**VA0140106**	3695455/ 3758810	VS-0040	50.017.700	135-A	GENERAL MOTORS
VX 0023 AA	**VA0230119**	800558	VS-0016	50.017.759	3272-A	FORD WILLYS
VX 0087 AA	**VE0570034**	0910041/ 0910073	VS-457	50.017.727	1251-EPMF	FORD
VX 0087 AA	**VE0570034**	0910041/ 0910073	VS-457	50.017.727	1251-EPMF	PERKINS (MAXION)
VX 0088 AA	**VE0230118**	800558	VS-770	50.017.760	3273-E	FORD WILLYS
VX 0088 AA	**VE0230118**	B-27220	VS-770	50.017.760	3273-E	JEEP
VX 0090 AA	**VA0570033**	0910030/ 0910069	VS-1754	50.017.707	250-AMF	FORD
VX 0090 AA	**VA0570033**	0910030/ 0910069	VS-1754	50.017.707	250-AMF	PERKINS (MAXION)
VX 0091 AA	**VE0570036**	0910002	VS-618	50.017.705	248-E	PERKINS (MAXION)
VX 0092 AB	**VA0570035**	31431261/ 0910001	VS-620		247-A	PERKINS (MAXION)
VX 0201 AA	**VE0700049**	040.109.612.2	VS-850	50.017.788	1452-E	VOLKSWAGEN
VX 0219 AB - STD	**VE0140105**	3724778/ 3989084	VS-1201	50.017.721	1138-EG	GENERAL MOTORS
VX 0220 AB	**VA0140104**	2638552/ 3774052	VS-1202	50.017.701	137-A	GENERAL MOTORS
VX 0221 AA +3	**VA0140108**	2787538/ 3786360	VS-865	50.017.702	137-A+3	GENERAL MOTORS
VX 0222 AA +15	**VA0140110**	3786361/ 3995685	VS-866	50.017.703	137-A+15	GENERAL MOTORS
VX 0238 AA +3	**VE0140107**	3732758	VS-1335	50.017.722	1138-EG+3	GENERAL MOTORS
VX 0239 AA +15	**VE0140109**	7323108/ 3995603	VS-1481	50.017.723	1138-EG+15	GENERAL MOTORS
VX 0246 AE	**VA0480004**	3520530101	VS-1177	50.017.042	226-AC	MERCEDES-BENZ
VX 0250 AA	**VA0590093**	59112	VS-1205	50.017.749	3038-A	FORD
VX 0256 AA	**VA0570032**	70910001/4	VS-887	50.017.704	247-A C/P	PERKINS (MAXION)
VX 0257 AA	**VE0570031**	70910002	VS-886	50.017.706	248-E C/P	PERKINS (MAXION)
VX 0282 AB	**VE0480003**	3520531505	VS-1178	50.017.049	1226-ECB	MERCEDES-BENZ
VX 0304 AA	**VA0130011**	9.2260.460.0054	VS-1134	50.017.717	565-AC	FORD
VX 0304 AA	**VA0130011**	9.2260.460.0054	VS-1134	50.017.717	565-AC	MWM
VX 0305 AA	**VE0130010**	9.3080.460.0024	VS-1135	50.017.199	1565-ECB	FORD
VX 0305 AA	**VE0130010**	9.3080.460.0024	VS-1135	50.017.199	1565-ECB	MWM
VX 0365 AC	**VE0140083**	94621105/1043	VS-1302	50.017.732	1332-ECP	GENERAL MOTORS
VX 0366 AD	**VE0700022**	311.109.612	VS-1167	50.017.738	1453-E	VOLKSWAGEN
VX 0383 AA	**VA0480048**	3460530001	VS-1157	50.017.044	229-AC	MERCEDES-BENZ
VX 0384 AA	**VE0480047**	3460530005	VS-1158	50.017.056	1229-EC	MERCEDES-BENZ
VX 0428 AF	**VA0700061**	056.109.601.A	VS-981		422-AC	VOLKSWAGEN
VX 0429 AA	**VE0700062**	056.109.611.A	VS-980	50.017.072	1422-EB	VOLKSWAGEN
VX 0434 AG	**VA0700020**	040.109.601.2	VS-869	50.017.716	452-A	VOLKSWAGEN
VX 0435 AF	**VA0700050**	040.109.601.1	VS-868	50.017.715	422-A	VOLKSWAGEN
VX 0440 AA	**VA0570111**	31431723/ 70910011	VS-1423	50.017.739	1498-ACP	FORD
VX 0440 AA	**VA0570111**	31431723/ 70910011	VS-1423	50.017.739	1498-ACP	PERKINS (MAXION)
VX 0441 AA	**VE0570112**	70910012	VS-1424	50.017.740	1498-ECP	FORD
VX 0441 AA	**VE0570112**	70910012	VS-1424	50.017.740	1498-ECP	PERKINS (MAXION)
VX 0514 AB	**VA0250002**	43401180	VS-992	50.017.170	380-AC	FIAT
VX 0588 AB	**VA0710063**	469240/ 4675002/ 8194223	VS-4934	50.017.126	860-AC	VOLVO
VX 0602 AA	**VA0570024**	31431315	VS-1160	50.017.792	249-AC	GENERAL MOTORS
VX 0602 AA	**VA0570024**	31431315	VS-1160	50.017.792	249-AC	PERKINS (MAXION)

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
VX 0604 AA	**VE0570023**	31431851	VS-1161	50.017.793	1249-ECP	GENERAL MOTORS
VX 0604 AA	**VE0570023**	31431851	VS-1161	50.017.793	1249-ECP	PERKINS (MAXION)
VX 0616 AA	**VE0760058**	232018/ 9639417980	VS-1367	50.017.123	1374-ECSS	SCANIA
VX 0692 AA	**VA0130099**	622804603014	VS-2696	50.017.767	3390-AC	MWM
VX 0756 AA	**VA0590094**	78MU-6507-A	VS-1132	50.017.708	326-A	FORD
VX 0757 AA	**VE0590092**	78MU-6505-B	VS-1204	50.017.729	1326-E	FORD
VX 0785 AB	**VE0700021**	43109611	VS-1317	50.017.728	1305-ECP	VOLKSWAGEN
VX 0786 AA	**VA0510045**	14711-383-000	VS-4906	50.017.778	23293-AP	HONDA
VX 0787 AA	**VE0510046**	14721-383-000	VS-4918	50.017.779	23293-EP	HONDA
VX 0846 AA	**VA0480091**	3550530001	VS-1136	50.017.119	3262-AC	MERCEDES-BENZ
VX 0847 AA	**VE0480090**	3550530005	VS-1137	50.017.120	3263-ECB	MERCEDES-BENZ
VX 0989 AA	**VA0510115**	14711-440-0030-BR	VS-4985			HONDA
VX 0990 AA	**VE0510117**	14721-437-0000	VS-4997	50.017.781	23409-ECSS	HONDA
VX 1085 AB	**VE0710064**	467855/ 8194224	VS-4936	50.017.127	1861-ECP	VOLVO
VX 1202 AA	**VA0700078**	049.109.601.F	VS-1356	50.017.385		VOLKSWAGEN
VX 1203 AA	**VE0700077**	049.109.611.F	VS-1357	50.017.386	1825-E	VOLKSWAGEN
VX 1209 AA	**VE0700081**	068.109.611.C	VS-1359	50.017.017	1303 ECB	VOLKSWAGEN
VX 1210 AA	**VA0700082**	068.109.601.C	VS-1358	50.017.016	303-AC	VOLKSWAGEN
VX 1220 AA	**VA0140114**	90136614/6613	VS-1415	50.017.713	344-AC	GENERAL MOTORS
VX 1221 AA	**VE0140113**	90136620/6621	VS-1658	50.017.736	1344-ECP	GENERAL MOTORS
VX 1319 AA	**VE0590042**	84AU-6505-A	VS-2465	50.017.748	3037-EP	FORD
VX 1320 AA	**VA0590043**	84AU-6507-A	VS-2489	50.017.747	3036-A	FORD
VX 1321 AA	**VA0590044**	84AU-6507-B/ 0291096011	VS-1492	50.017.797	814-AC	FORD
VX 1321 AA	**VA0590044**	84AU-6507-B/ 0291096011	VS-1492	50.017.797	814-AC	VOLKSWAGEN
VX 1368 AA	**VA0700017**	035.109.601.C	VS-1646	50.017.396	815-AC	VOLKSWAGEN
VX 1455 AC	**VE0710120**	468303	VS-4938	50.017.125	1582-ECP	VOLVO
VX 1472 AA	**VE0700016**	035.109.611.F	VS-1696	50.017.397	1815-EB	FORD
VX 1472 AA	**VE0700016**	035.109.611.F	VS-1696	50.017.397	1815-EB	VOLKSWAGEN
VX 1473 AA	**VA0510116**	14711-397-6300	VS-4917	50.017.772	3408-AC	HONDA
VX 1550 AA	**VA0140084**	94621104/1038	VS-1299	50.017.710	332-AC	GENERAL MOTORS
VX 1565 AA	**VA0480080**	3450537001	VS-1129	50.017.757	843-AC	MERCEDES-BENZ
VX 1566 AA	**VE0480079**	3450500127/7005	VS-1128	50.017.758	1843-ECP	MERCEDES-BENZ
VX 1594 AA	**VA0710121**	468302	VS-4937	50.017.124	582-AC	VOLVO
VX 1628 AA	**VE0250001**	59852970	VS-993	50.017.171	1380-EC	FIAT
VX 1699 AA	**VA0140040**	90220119	VS-1980	50.017.752	3109-AC	GENERAL MOTORS
VX 1784 AA	**VA0760013**	352211	VS-4902	50.017.789	1374-ACB 20°	SCANIA
VX 1812 AB	**VA0590066**	035109601G	VS-4762	50.017.826	3312-A	FORD
VX 1812 AB	**VA0590066**	035109601G	VS-4762	50.017.826	3312-A	VOLKSWAGEN
VX 1912 AA	**VA0570038**	70910017	VS-2815	50.017.769	3392-AC	GENERAL MOTORS
VX 1912 AA	**VA0570038**	70910017	VS-2815	50.017.769	3392-AC	PERKINS (MAXION)
VX 1913 AA	**VE0570037**	70910018	VS-2816	50.017.770	3393-ECB	GENERAL MOTORS
VX 1913 AA	**VE0570037**	70910018	VS-2816	50.017.770	3393-ECB	PERKINS (MAXION)
VX 1947 AA	**VA0590067**	026109601D	VS-2639		3602-A	FORD
VX 1947 AA	**VA0590067**	026109601D	VS-2639		3602-A	VOLKSWAGEN
VX 1975 AA	**VE0130098**	9.229.0.460.003.4	VS-2695	50.017.768	3391-ECB	MWM
VX 2009 AA	**VA0510070**	14711-KW1-9000-R	VS-4995	50.017.785	1001-AC	HONDA
VX 2018 AA	**VE0510069**	14721-KW1-9000-R	VS-4996	50.017.786	1002-ECB	HONDA
VX 2019 AA	**VE0760012**	1100997	VS-4904	50.017.790	23395-ECSS	SCANIA
VX 2028 AA	**VA0250018**	46470637/ 46559031	VS-4897	50.017.756	3234-AC	FIAT
VX 2029 AA	**VE0250019**	7633752/ 46470638	VS-4898		23234-ECS	FIAT
VX 2034 AA	**VA0140041**	52285384	VS-1660	50.017.753	3045-ECP	GENERAL MOTORS
VX 2047 AB	**VA0250159**	7547400	VS-2873	50.017.745	1826-AC	FIAT
VX 2059 AA	**VE0140039**	90323756			23109-ECP	GENERAL MOTORS
VX 2123 AA	**VA0130101**	9.610.0.460.003.4	VS-2825	50.017.844	3422-AC	MWM
VX 2123 AA	**VA0130101**	9.610.0.460.003.4	VS-2825	50.017.844	3422-AC	VOLKSWAGEN
VX 2124 AA	**VE0130100**	9.610.0.460.002.4	VS-2824	50.017.844	23423-ECBS	MWM

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
VX 2124 AA	**VE0130100**	9.610.0.460.002.4	VS-2824	50.017.844	23423-ECBS	VOLKSWAGEN
VX 2220 AA	**VA0250060**	4239917/ 4460697	VS-2556	50.017.714	175-AC	FIAT
VX 2221 AA	**VE0250059**	5973129	VS-2557	50.017.737	1383-EC	FIAT
VX 2274 AA	**VE0140071**	90410813/ 641325	VS 5086		23141-ECBS	GENERAL MOTORS
VX 2298 AA	**VE0570122**	70910038	VS-2833			GENERAL MOTORS
VX 2298 AA	**VE0570122**	70910038	VS-2833			PERKINS (MAXION)
VX 2299 AA	**VA0570123**	70910025/35	VS-2831		3342-AC	GENERAL MOTORS
VX 2299 AA	**VA0570123**	70910025/35	VS-2831		3342-AC	PERKINS (MAXION)
VX 2324 AA	**VA0510029**	14711-KYO-8901-R	VS-4993	50.017.774	3416-AC	HONDA
VX 2325 AA	**VE0510030**	14721-KYO-8901-R	VS-4994	50.017.783	23417-ECBS	HONDA
VX 2331 AA	**VA0140086**	90215492 / 7083246	VS-4899	50.017.835	3146-AC	GENERAL MOTORS
VX 2332 AA	**VA0140015**	90323518/ 642763	VS-4261	50.017.754	3136-AC	GENERAL MOTORS
VX 2333 AA	**VE0140014**	90.323.523/ 642890	VS-4262	50.017.755	3137-ECB	GENERAL MOTORS
VX 2334 AA	**VE0140085**	90324412	VS-4900	50.017.836	3147-ECB	GENERAL MOTORS
VX 2387 AA	**VA0480056**	4220500226/ 4420500526	VS-2520		1839-ACB	MERCEDES-BENZ
VX 2388 AA	**VA0480006**	3760530101	VS-1814	50.017.391	3260-ACB	MERCEDES-BENZ
VX 2389 AA	**VE0480005**	3660500227	VS-2535	50.017.390	23260-ECB	MERCEDES-BENZ
VX 2390 AA (VA1648A)	**VA0480096**	3760530001	VS-2587	50.017.389	2026-AC 30°	MERCEDES-BENZ
VX 2391 AA (VA1751A)	**VE0480097**	3760500027/ 3660500027	VS-2091	50.017.055	23260-ECB	MERCEDES-BENZ
VX 2392 AA	**VE0250158**	7597080			1826 ECB	FIAT
VX 2399 AA	**VA0250054**	7617500	VS-2692	50.017.720	856-AC	FIAT
VX 2400 AA	**VE0250053**	5973128	VS-2691	50.017.787	1175-ECSS	FIAT
VX 2463 AA	**VA0140076**	90412712		50.017.837	3138-AC	GENERAL MOTORS
VX 2600 AA	**VE0480055**	4220500127/ 4420500227	VS-4362		1839-ECB	MERCEDES-BENZ
VX 2607 AA	**VA0250052**	7722907	VS-4530	50.017.761	3320-AC	FIAT
VX 2608 AA	**VE0250051**	7574742	VS-4531	50.017.762	3321-ECB	FIAT
VX 2750 AA	**VA0760103**	1515743/ 1333230			3663-ECBS	SCANIA
VX 2751 AA	**VE0760102**	1328537			3663-ECBS	SCANIA
VX 2811 AA	**VA0480007**	366.050.1226	VS-2770	50.017.794	3260-ACB-20°	MERCEDES-BENZ
VX 2875 AA	**VA0700009**	036.109.601.R	VS-5127		3508-A	VOLKSWAGEN
VX 2909 AA	**VA0140072**	90412277/641022	VS-5094		3140-AC	GENERAL MOTORS
VX 2923 AA	**VA0700088**	048.109.601.E	VS-4510		3484-AB	VOLKSWAGEN
VX 2925 AA	**VE0140075**	90412974		50.017.838	3139-EC	GENERAL MOTORS
VX 2930 AA	**VA0700028**	030.109.601.AC	VS-4919	50.017.849	3512-A	VOLKSWAGEN
VX 2931 AA	**VE0700027**	030.109.611.AC	VS-4856		3513-EB	VOLKSWAGEN
VX 2951 AB	**VE0480194**	5410500227	VS-5225		3857-ECB	MERCEDES-BENZ
VX 2975 AA	**VA0700089**	078.109.601.B	VS-4546		3486-A	VOLKSWAGEN
VX 2976 AA	**VE0700087**	048.109.611.C	VS-4511		3485-EBS	VOLKSWAGEN
VX 2989 AA	**VE0700008**	036.109.611.J	VS-5223		3509-EB	VOLKSWAGEN
VX 2996 AA	**VA0140026**	93248325			3578-AC	GENERAL MOTORS
VX 2997 AA	**VE0140025**	93248326			3579-ECB	GENERAL MOTORS
VX 3004 AB	**VA0480244**	9060500326			3846-AC	MERCEDES-BENZ
VX 3042 AA	**VE0510127**	14721-GF6-0101				HONDA
VX 3043 AA	**VA0510126**	14711-GN5-9130				HONDA
VX 3066 AA	**VA0700252**	032.109.601.M				VOLKSWAGEN
VX 3090 AA	**VA0700074**	036.109.601.AE			3870-A	VOLKSWAGEN
VX 3091 AA	**VE0700073**	036.109.611.T			3871-EB	VOLKSWAGEN
VX 3092 AA	**VE0700253**	032.109.611.L				VOLKSWAGEN
VX 3101 AA	**VA0180124**	7701471378/ 7700107602			3598-A	RENAULT
VX 3102 AA	**VE0180125**	7701473354/ 8200054762			3599-EB	RENAULT
VX 3128 AA	**VA0250162**	46553046			3800-AC	FIAT
VX 3129 AA	**VE0250167**	46553047				FIAT
VX 3131 AA	**VA0510128**	14711-KPF-9000-RW1				HONDA
VX 3132 AA	**VE0510129**	14721-KPF-9000-RW1				HONDA
VX 3176 AA	**VA0140226**	93333561				GENERAL MOTORS
VX 3177 AA	**VE0140248**	93333562				GENERAL MOTORS

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
VX 3204 AA	**VA0510227**	14711-KSS-9000				HONDA
VX 3207 AA	**VA0510195**	14711-KGA-B000-R				HONDA
VX 3208 AA	**VE0510196**	14721-KGA-B000-R				HONDA
VX 3242 AA	**VE0510228**	14721-KSS-9000				HONDA
VX 3273 AA	**VA0510197**	14711-KRM-8400				HONDA
VX 3274 AA	**VE0510198**	17421-KRM-8400				HONDA
VX 3285 AA	**VA0520199**	5HH-12111-00				YAMAHA
VX 3286 AA	**VE0520200**	5HH-12121-00				YAMAHA
VX 1320 AA	**VA0590043**	84AU-6507-A	VS-2489	50.017.747	3036-A	FORD
VX 1321 AA	**VA0590044**	84AU-6507-B/ 0291096011	VS-1492	50.017.797	814-AC	FORD
VX 1321 AA	**VA0590044**	84AU-6507-B/ 0291096011	VS-1492	50.017.797	814-AC	VOLKSWAGEN
VX 1368 AA	**VA0700017**	035.109.601.C	VS-1646	50.017.396	815-AC	VOLKSWAGEN
VX 1455 AC	**VE0710120**	468303	VS-4938	50.017.125	1582-ECP	VOLVO
VX 1472 AA	**VE0700016**	035.109.611.F	VS-1696	50.017.397	1815-EB	FORD
VX 1472 AA	**VE0700016**	035.109.611.F	VS-1696	50.017.397	1815-EB	VOLKSWAGEN
VX 1473 AA	**VA0510116**	14711-397-6300	VS-4917	50.017.772	3408-AC	HONDA
VX 1550 AA	**VA0140084**	94621104/1038	VS-1299	50.017.710	332-AC	GENERAL MOTORS
VX 1565 AA	**VA0480080**	3450537001	VS-1129	50.017.757	843-AC	MERCEDES-BENZ
VX 1566 AA	**VE0480079**	3450500127/7005	VS-1128	50.017.758	1843-ECP	MERCEDES-BENZ
VX 1594 AA	**VA0710121**	468302	VS-4937	50.017.124	582-AC	VOLVO
VX 1628 AA	**VE0250001**	59852970	VS-993	50.017.171	1380-EC	FIAT
VX 1699 AA	**VA0140040**	90220119	VS-1980	50.017.752	3109-AC	GENERAL MOTORS
VX 1784 AA	**VA0760013**	352211	VS-4902	50.017.789	1374-ACB 20°	SCANIA
VX 1812 AB	**VA0590066**	035109601G	VS-4762	50.017.826	3312-A	FORD
VX 1812 AB	**VA0590066**	035109601G	VS-4762	50.017.826	3312-A	VOLKSWAGEN
VX 1912 AA	**VA0570038**	70910017	VS-2815	50.017.769	3392-AC	GENERAL MOTORS
VX 1912 AA	**VA0570038**	70910017	VS-2815	50.017.769	3392-AC	PERKINS (MAXION)
VX 1913 AA	**VE0570037**	70910018	VS-2816	50.017.770	3393-ECB	GENERAL MOTORS
VX 1913 AA	**VE0570037**	70910018	VS-2816	50.017.770	3393-ECB	PERKINS (MAXION)
VX 1947 AA	**VA0590067**	026109601D	VS-2639		3602-A	FORD
VX 1947 AA	**VA0590067**	026109601D	VS-2639		3602-A	VOLKSWAGEN
VX 1975 AA	**VE0130098**	9.229.0.460.003.4	VS-2695	50.017.768	3391-ECB	MWM
VX 2009 AA	**VA0510070**	14711-KW1-9000-R	VS-4995	50.017.785	1001-AC	HONDA
VX 2018 AA	**VE0510069**	14721-KW1-9000-R	VS-4996	50.017.786	1002-ECB	HONDA
VX 2019 AA	**VE0760012**	1100997	VS-4904	50.017.790	23395-ECSS	SCANIA
VX 2028 AA	**VA0250018**	46470637/ 46559031	VS-4897	50.017.756	3234-AC	FIAT
VX 2029 AA	**VE0250019**	7633752/ 46470638	VS-4898		23234-ECS	FIAT
VX 2034 AA	**VA0140041**	52285384	VS-1660	50.017.753	3045-ECP	GENERAL MOTORS
VX 2047 AB	**VA0250159**	7547400	VS-2873	50.017.745	1826-AC	FIAT
VX 2059 AA	**VE0140039**	90323756			23109-ECP	GENERAL MOTORS
VX 2123 AA	**VA0130101**	9.610.0.460.003.4	VS-2825	50.017.844	3422-AC	MWM
VX 2123 AA	**VA0130101**	9.610.0.460.003.4	VS-2825	50.017.844	3422-AC	VOLKSWAGEN
VX 2124 AA	**VE0130100**	9.610.0.460.002.4	VS-2824	50.017.844	23423-ECBS	MWM
VX 2124 AA	**VE0130100**	9.610.0.460.002.4	VS-2824	50.017.844	23423-ECBS	VOLKSWAGEN
VX 2220 AA	**VA0250060**	4239917/ 4460697	VS-2556	50.017.714	175-AC	FIAT
VX 2221 AA	**VE0250059**	5973129	VS-2557	50.017.737	1383-EC	FIAT
VX 2274 AA	**VE0140071**	90410813/ 641325	VS 5086		23141-ECBS	GENERAL MOTORS
VX 2298 AA	**VE0570122**	70910038	VS-2833			GENERAL MOTORS
VX 2298 AA	**VE0570122**	70910038	VS-2833			PERKINS (MAXION)
VX 2299 AA	**VA0570123**	70910025/35	VS-2831		3342-AC	GENERAL MOTORS
VX 2299 AA	**VA0570123**	70910025/35	VS-2831		3342-AC	PERKINS (MAXION)
VX 2324 AA	**VA0510029**	14711-KYO-8901-R	VS-4993	50.017.774	3416-AC	HONDA
VX 2325 AA	**VE0510030**	14721-KYO-8901-R	VS-4994	50.017.783	23417-ECBS	HONDA
VX 2331 AA	**VA0140086**	90215492 / 7083246	VS-4899	50.017.835	3146-AC	GENERAL MOTORS
VX 2332 AA	**VA0140015**	90323518/ 642763	VS-4261	50.017.754	3136-AC	GENERAL MOTORS
VX 2333 AA	**VE0140014**	90.323.523/ 642890	VS-4262	50.017.755	3137-ECB	GENERAL MOTORS

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
VX 2334 AA	**VE0140085**	90324412	VS-4900	50.017.836	3147-ECB	GENERAL MOTORS
VX 2387 AA	**VA0480056**	4220500226/ 4420500526	VS-2520		1839-ACB	MERCEDES-BENZ
VX 2388 AA	**VA0480006**	3760530101	VS-1814	50.017.391	3260-ACB	MERCEDES-BENZ
VX 2389 AA	**VE0480005**	3660500227	VS-2535	50.017.390	23260-ECB	MERCEDES-BENZ
VX 2390 AA (VA1648A)	**VA0480096**	3760530001	VS-2587	50.017.389	2026-AC 30°	MERCEDES-BENZ
VX 2391 AA (VA1751A)	**VE0480097**	3760500027/ 3660500027	VS-2091	50.017.055	23260-ECB	MERCEDES-BENZ
VX 2392 AA	**VE0250158**	7597080			1826 ECB	FIAT
VX 2399 AA	**VA0250054**	7617500	VS-2692	50.017.720	856-AC	FIAT
VX 2400 AA	**VE0250053**	5973128	VS-2691	50.017.787	1175-ECSS	FIAT
VX 2463 AA	**VA0140076**	90412712		50.017.837	3138-AC	GENERAL MOTORS
VX 2600 AA	**VE0480055**	4220500127/ 4420500227	VS-4362		1839-ECB	MERCEDES-BENZ
VX 2607 AA	**VA0250052**	7722907	VS-4530	50.017.761	3320-AC	FIAT
VX 2608 AA	**VE0250051**	7574742	VS-4531	50.017.762	3321-ECB	FIAT
VX 2750 AA	**VA0760103**	1515743/ 1333230			3663-ECBS	SCANIA
VX 2751 AA	**VE0760102**	1328537			3663-ECBS	SCANIA
VX 2811 AA	**VA0480007**	366.050.1226	VS-2770	50.017.794	3260-ACB-20°	MERCEDES-BENZ
VX 2875 AA	**VA0700009**	036.109.601.R	VS-5127		3508-A	VOLKSWAGEN
VX 2909 AA	**VA0140072**	90412277/641022	VS-5094		3140-AC	GENERAL MOTORS
VX 2923 AA	**VA0700088**	048.109.601.E	VS-4510		3484-AB	VOLKSWAGEN
VX 2925 AA	**VE0140075**	90412974		50.017.838	3139-EC	GENERAL MOTORS
VX 2930 AA	**VA0700028**	030.109.601.AC	VS-4919	50.017.849	3512-A	VOLKSWAGEN
VX 2931 AA	**VE0700027**	030.109.611.AC	VS-4856		3513-EB	VOLKSWAGEN
VX 2951 AB	**VE0480194**	5410500227	VS-5225		3857-ECB	MERCEDES-BENZ
VX 2975 AA	**VA0700089**	078.109.601.B	VS-4546		3486-A	VOLKSWAGEN
VX 2976 AA	**VE0700087**	048.109.611.C	VS-4511		3485-EBS	VOLKSWAGEN
VX 2989 AA	**VE0700008**	036.109.611.J	VS-5223		3509-EB	VOLKSWAGEN
VX 2996 AA	**VA0140026**	93248325			3578-AC	GENERAL MOTORS
VX 2997 AA	**VE0140025**	93248326			3579-ECB	GENERAL MOTORS
VX 3004 AB	**VA0480244**	9060500326			3846-AC	MERCEDES-BENZ
VX 3042 AA	**VE0510127**	14721-GF6-0101				HONDA
VX 3043 AA	**VA0510126**	14711-GN5-9130				HONDA
VX 3066 AA	**VA0700252**	032.109.601.M				VOLKSWAGEN
VX 3090 AA	**VA0700074**	036.109.601.AE			3870-A	VOLKSWAGEN
VX 3091 AA	**VE0700073**	036.109.611.T			3871-EB	VOLKSWAGEN
VX 3092 AA	**VE0700253**	032.109.611.L				VOLKSWAGEN
VX 3101 AA	**VA0180124**	7701471378/ 7700107602			3598-A	RENAULT
VX 3102 AA	**VE0180125**	7701473354/ 8200054762			3599-EB	RENAULT
VX 3128 AA	**VA0250162**	46553046			3800-AC	FIAT
VX 3129 AA	**VE0250167**	46553047				FIAT
VX 3131 AA	**VA0510128**	14711-KPF-9000-RW1				HONDA
VX 3132 AA	**VE0510129**	14721-KPF-9000-RW1				HONDA
VX 3176 AA	**VA0140226**	93333561				GENERAL MOTORS
VX 3177 AA	**VE0140248**	93333562				GENERAL MOTORS
VX 3204 AA	**VA0510227**	14711-KSS-9000				HONDA
VX 3207 AA	**VA0510195**	14711-KGA-B000-R				HONDA
VX 3208 AA	**VE0510196**	14721-KGA-B000-R				HONDA
VX 3242 AA	**VE0510228**	14721-KSS-9000				HONDA
VX 3273 AA	**VA0510197**	14711-KRM-8400				HONDA
VX 3274 AA	**VE0510198**	17421-KRM-8400				HONDA
VX 3285 AA	**VA0520199**	5HH-12111-00				YAMAHA
VX 3286 AA	**VE0520200**	5HH-12121-00				YAMAHA
5410500227	**VE0480194**	VX 2951 AB	VS-5225		3857-ECB	MERCEDES-BENZ
55195497	**VA0250271**	V76562A0			3956-AC	FIAT
55195498	**VE0250272**	V76563A0			3997-ECB	FIAT
55218807	**VE0251476**			50.017.972		FIAT
55224590	**VA0251610**					FIAT

TRW	MAHLE	ORIGINAL	EATON	KS	3B	LINHA MOTORA
55231699	**VE0251611**					FIAT
55563529	**VE0141575**					GENERAL MOTORS
55569449	**VA0141579**					GENERAL MOTORS
55569450	**VE0141580**					GENERAL MOTORS
55570709	**VE0141582**					GENERAL MOTORS
55570710	**VA0141581**					GENERAL MOTORS
59112	**VA0590093**	VX 0250 AA	VS-1205	50.017.749	3038-A	FORD
5973128	**VE0250053**	VX 2400 AA	VS-2691	50.017.787	1175-ECSS	FIAT
5973129	**VE0250059**	VX 2221 AA	VS-2557	50.017.737	1383-EC	FIAT
59852970	**VE0250001**	VX 1628 AA	VS-993	50.017.171	1380-EC	FIAT
5HH-12111-00	**VA0520199**	VX 3285 AA				YAMAHA
5HH-12121-00	**VE0520200**	VX 3286 AA				YAMAHA
5I-7738	**VA0111409**					CATERPILLAR
5I-7739	**VE0111410**					CATERPILLAR
5S-6449	**VE0110142**		VS-968			CATERPILLAR
5S-6452	**VA0110143**		VS-0969			CATERPILLAR
6010531901	**VA0570250**				3344-ACB	MERCEDES-BENZ
6010532827	**VE0570230**		VS-4892	50.017.847		MERCEDES-BENZ
60811153/ 7766564	**VA0250168**				3736-AC	ALFA ROMEO
60811153/ 7766564	**VA0250168**				3736-AC	FIAT
60811154/ 7766565	**VE0250169**					ALFA ROMEO
60811154/ 7766565	**VE0250169**					FIAT
6110530005	**VE0480251**				3659-EN	MERCEDES-BENZ
6110530101	**VA0480233**				3658-AN	MERCEDES-BENZ
622804603014	**VA0130099**	VX 0692 AA	VS-2696	50.017.767	3390-AC	MWM
675046-C4	**VA0380226**					INTERNATIONAL
676687-C4	**VA0380228**					INTERNATIONAL
676865-C4	**VE0380227**					INTERNATIONAL
6N-9915	**VA0110145**		VS-2401			CATERPILLAR
6N-9916/ 1487455	**VE0110146**		VS-2402		23210-EBS	CATERPILLAR
7004.00600500.8	**VA0060902**					AGRALE
7004.00600600.6	**VE0060906**					AGRALE
7006.00600500.3	**VA0060903**					AGRALE
7006.00600600.1	**VE0060323**					AGRALE
7007.00600500.1	**VA0060904**					AGRALE
7007.00600600.9	**VE0060907**					AGRALE
7008.00600500.9	**VC0060905**					AGRALE

EATON	MAHLE	ORIGINAL	TRW	KS	3B	LINHA MOTORA
VS-0016	**VA0230119**	800558	VX 0023 AA	50.017.759	3272-A	FORD WILLYS
VS-0040	**VA0140106**	3695455/ 3758810	VX 0013 AA	50.017.700	135-A	GENERAL MOTORS
VS-0696	**VA0110140**	8H-1993				CATERPILLAR
VS-0969	**VA0110143**	5S-6452				CATERPILLAR
VS-0985	**VE0210148**	3803524				CUMMINS
VS-1128	**VE0480079**	3450500127/7005	VX 1566 AA	50.017.758	1843-ECP	MERCEDES-BENZ
VS-1129	**VA0480080**	3450537001	VX 1565 AA	50.017.757	843-AC	MERCEDES-BENZ
VS-1132	**VA0590094**	78MU-6507-A	VX 0756 AA	50.017.708	326-A	FORD
VS-1134	**VA0130011**	9.2260.460.0054	VX 0304 AA	50.017.717	565-AC	FORD
VS-1134	**VA0130011**	9.2260.460.0054	VX 0304 AA	50.017.717	565-AC	MWM
VS-1135	**VE0130010**	9.3080.460.0024	VX 0305 AA	50.017.199	1565-ECB	FORD
VS-1135	**VE0130010**	9.3080.460.0024	VX 0305 AA	50.017.199	1565-ECB	MWM
VS-1136	**VA0480091**	3550530001	VX 0846 AA	50.017.119	3262-AC	MERCEDES-BENZ
VS-1137	**VE0480090**	3550530005	VX 0847 AA	50.017.120	3263-ECB	MERCEDES-BENZ
VS-1157	**VA0480048**	3460530001	VX 0383 AA	50.017.044	229-AC	MERCEDES-BENZ
VS-1158	**VE0480047**	3460530005	VX 0384 AA	50.017.056	1229-EC	MERCEDES-BENZ
VS-1160	**VA0570024**	31431315	VX 0602 AA	50.017.792	249-AC	GENERAL MOTORS
VS-1160	**VA0570024**	31431315	VX 0602 AA	50.017.792	249-AC	PERKINS (MAXION)
VS-1161	**VE0570023**	31431851	VX 0604 AA	50.017.793	1249-ECP	GENERAL MOTORS
VS-1161	**VE0570023**	31431851	VX 0604 AA	50.017.793	1249-ECP	PERKINS (MAXION)
VS-1167	**VE0700022**	311.109.612	VX 0366 AD	50.017.738	1453-E	VOLKSWAGEN
VS-1177	**VA0480004**	3520530101	VX 0246 AE	50.017.042	226-AC	MERCEDES-BENZ
VS-1178	**VE0480003**	3520531505	VX 0282 AB	50.017.049	1226-ECB	MERCEDES-BENZ
VS-1201	**VE0140105**	3724778/ 3989084	VX 0219 AB - std	50.017.721	1138-EG	GENERAL MOTORS
VS-1202	**VA0140104**	2638552/ 3774052	VX 0220 AB	50.017.701	137-A	GENERAL MOTORS
VS-1204	**VE0590092**	78MU-6505-B	VX 0757 AA	50.017.729	1326-E	FORD
VS-1205	**VA0590093**	59112	VX 0250 AA	50.017.749	3038-A	FORD
VS-1299	**VA0140084**	94621104/1038	VX 1550 AA	50.017.710	332-AC	GENERAL MOTORS
VS-1302	**VE0140083**	94621105/1043	VX 0365 AC	50.017.732	1332-ECP	GENERAL MOTORS
VS-1317	**VE0700021**	43109611	VX 0785 AB	50.017.728	1305-ECP	VOLKSWAGEN
VS-1335	**VE0140107**	3732758	VX 0238 AA - +3	50.017.722	1138-EG+3	GENERAL MOTORS
VS-1356	**VA0700078**	049.109.601.F	VX 1202 AA	50.017.385		VOLKSWAGEN
VS-1357	**VE0700077**	049.109.611.F	VX 1203 AA	50.017.386	1825-E	VOLKSWAGEN
VS-1358	**VA0700082**	068.109.601.C	VX 1210 AA	50.017.016	303-AC	VOLKSWAGEN
VS-1359	**VE0700081**	068.109.611.C	VX 1209 AA	50.017.017	1303 ECB	VOLKSWAGEN
VS-1367	**VE0760058**	232018/ 9639417980	VX 0616 AA	50.017.123	1374-ECSS	SCANIA
VS-1406	**VE0110144**	8N-0875				CATERPILLAR
VS-1415	**VA0140114**	90136614/6613	VX 1220 AA	50.017.713	344-AC	GENERAL MOTORS
VS-1423	**VA0570111**	31431723/ 70910011	VX 0440 AA	50.017.739	1498-ACP	FORD
VS-1423	**VA0570111**	31431723/ 70910011	VX 0440 AA	50.017.739	1498-ACP	PERKINS (MAXION)
VS-1424	**VE0570112**	70910012	VX 0441 AA	50.017.740	1498-ECP	FORD
VS-1424	**VE0570112**	70910012	VX 0441 AA	50.017.740	1498-ECP	PERKINS (MAXION)
VS-1481	**VE0140109**	7323108/ 3995603	VX 0239 AA - +15	50.017.723	1138-EG+15	GENERAL MOTORS
VS-1492	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	50.017.797	814-AC	FORD
VS-1492	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	50.017.797	814-AC	VOLKSWAGEN
VS-1646	**VA0700017**	035.109.601.C	VX 1368 AA	50.017.396	815-AC	VOLKSWAGEN
VS-1658	**VE0140113**	90136620/6621	VX 1221 AA	50.017.736	1344-ECP	GENERAL MOTORS
VS-1660	**VA0140041**	52285384	VX 2034 AA	50.017.753	3045-ECP	GENERAL MOTORS
VS-1696	**VE0700016**	035.109.611.F	VX 1472 AA	50.017.397	1815-EB	FORD
VS-1696	**VE0700016**	035.109.611.F	VX 1472 AA	50.017.397	1815-EB	VOLKSWAGEN
VS-1754	**VA0570033**	0910030/ 0910069	VX 0090 AA	50.017.707	250-AMF	FORD
VS-1754	**VA0570033**	0910030/ 0910069	VX 0090 AA	50.017.707	250-AMF	PERKINS (MAXION)
VS-1814	**VA0480006**	3760530101	VX 2388 AA	50.017.391	3260-ACB	MERCEDES-BENZ
VS-1980	**VA0140040**	90220119	VX 1699 AA	50.017.752	3109-AC	GENERAL MOTORS

EATON	MAHLE	ORIGINAL	TRW	KS	3B	LINHA MOTORA
VS-2091	**VE0480097**	3760500027/ 3660500027	VX 2391 AA (VA1751A)	50.017.055	23260-ECB	MERCEDES-BENZ
VS-2401	**VA0110145**	6N-9915				CATERPILLAR
VS-2402	**VE0110146**	6N-9916/ 1487455			23210-EBS	CATERPILLAR
VS-2465	**VE0590042**	84AU-6505-A	VX 1319 AA	50.017.748	3037-EP	FORD
VS-2489	**VA0590043**	84AU-6507-A	VX 1320 AA	50.017.747	3036-A	FORD
VS-2520	**VA0480056**	4220500226/ 4420500526	VX 2387 AA		1839-ACB	MERCEDES-BENZ
VS-2535	**VE0480005**	3660500227	VX 2389 AA	50.017.390	23260-ECB	MERCEDES-BENZ
VS-2556	**VA0250060**	4239917/ 4460697	VX 2220 AA	50.017.714	175-AC	FIAT
VS-2557	**VE0250059**	5973129	VX 2221 AA	50.017.737	1383-EC	FIAT
VS-2587	**VA0480096**	3760530001	VX 2390 AA (VA1648A)	50.017.389	2026-AC 30°	MERCEDES-BENZ
VS-2639	**VA0590067**	026109601D	VX 1947 AA		3602-A	FORD
VS-2639	**VA0590067**	026109601D	VX 1947 AA		3602-A	VOLKSWAGEN
VS-2691	**VE0250053**	5973128	VX 2400 AA	50.017.787	1175-ECSS	FIAT
VS-2692	**VA0250054**	7617500	VX 2399 AA	50.017.720	856-AC	FIAT
VS-2695	**VE0130098**	9.229.0.460.003.4	VX 1975 AA	50.017.768	3391-ECB	MWM
VS-2696	**VA0130099**	622804603014	VX 0692 AA	50.017.767	3390-AC	MWM
VS-2770	**VA0480007**	366.050.1226	VX 2811 AA	50.017.794	3260-ACB-20°	MERCEDES-BENZ
VS-2815	**VA0570038**	70910017	VX 1912 AA	50.017.769	3392-AC	GENERAL MOTORS
VS-2815	**VA0570038**	70910017	VX 1912 AA	50.017.769	3392-AC	PERKINS (MAXION)
VS-2816	**VE0570037**	70910018	VX 1913 AA	50.017.770	3393-ECB	GENERAL MOTORS
VS-2816	**VE0570037**	70910018	VX 1913 AA	50.017.770	3393-ECB	PERKINS (MAXION)
VS-2824	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	50.017.844	23423-ECBS	MWM
VS-2824	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	50.017.844	23423-ECBS	VOLKSWAGEN
VS-2825	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	50.017.844	3422-AC	MWM
VS-2825	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	50.017.844	3422-AC	VOLKSWAGEN
VS-2831	**VA0570123**	70910025/35	VX 2299 AA		3342-AC	GENERAL MOTORS
VS-2831	**VA0570123**	70910025/35	VX 2299 AA		3342-AC	PERKINS (MAXION)
VS-2833	**VE0570122**	70910038	VX 2298 AA			GENERAL MOTORS
VS-2833	**VE0570122**	70910038	VX 2298 AA			PERKINS (MAXION)
VS-2873	**VA0250159**	7547400	VX 2047 AB	50.017.745	1826-AC	FIAT
VS-3124	**VA0110232**	7W-8064			3614-AC	CATERPILLAR
VS-3124	**VA0110232**	7W-8064			3614-AC	GENERAL MOTORS
VS-3140	**VE0110233**	136-0819				CATERPILLAR
VS-3140	**VE0110233**	136-0819				GENERAL MOTORS
VS-4261	**VA0140015**	90323518/ 642763	VX 2332 AA	50.017.754	3136-AC	GENERAL MOTORS
VS-4262	**VE0140014**	90.323.523/ 642890	VX 2333 AA	50.017.755	3137-ECB	GENERAL MOTORS
VS-4306	**VE0210150**	3920868/ 3802356			3467-ECB	CUMMINS
VS-4306	**VE0210150**	3920868/ 3802356			3467-ECB	FORD
VS-4306	**VE0210150**	3920868/ 3802356			3467-ECB	VOLKSWAGEN
VS-4307	**VA0210151**	3920867/ 3802355			3466-AC	CUMMINS
VS-4307	**VA0210151**	3920867/ 3802356			3466-AC	FORD
VS-4307	**VA0210151**	3920867/ 3802356			3466-AC	VOLKSWAGEN
VS-4308	**VE0210152**	3921444/ 3802085			3335-ECP	CUMMINS
VS-4308	**VE0210152**	3921444/ 3902254			3335-ECP	FORD
VS-4308	**VE0210152**	3921444/ 3802085			3335-ECP	VOLKSWAGEN
VS-4309	**VA0210153**	3924492/ 3802463			3334-AC	CUMMINS
VS-4309	**VA0210153**	3924492/ 3902253			3334-AC	FORD
VS-4309	**VA0210153**	3924492/ 3802463			3334-AC	VOLKSWAGEN
VS-4362	**VE0480055**	4220500127/ 4420500227	VX 2600 AA		1839-ECB	MERCEDES-BENZ
VS-4510	**VA0700088**	048.109.601.E	VX 2923 AA		3484-AB	VOLKSWAGEN
VS-4511	**VE0700087**	048.109.611.C	VX 2976 AA		3485-EBS	VOLKSWAGEN
VS-4530	**VA0250052**	7722907	VX 2607 AA	50.017.761	3320-AC	FIAT
VS-4531	**VE0250051**	7574742	VX 2608 AA	50.017.762	3321-ECB	FIAT
VS-4546	**VA0700089**	078.109.601.B	VX 2975 AA		3486-A	VOLKSWAGEN
VS-457	**VE0570034**	0910041/ 0910073	VX 0087 AA	50.017.727	1251-EPMF	FORD
VS-457	**VE0570034**	0910041/ 0910073	VX 0087 AA	50.017.727	1251-EPMF	PERKINS (MAXION)

EATON	MAHLE	ORIGINAL	TRW	KS	3B	LINHA MOTORA
VS-460	**VE0110141**	8H-1994				CATERPILLAR
VS-4762	**VA0590066**	035109601G	VX 1812 AB	50.017.826	3312-A	FORD
VS-4762	**VA0590066**	035109601G	VX 1812 AB	50.017.826	3312-A	VOLKSWAGEN
VS-4856	**VE0700027**	030.109.611.AC	VX 2931 AA		3513-EB	VOLKSWAGEN
VS-4892	**VE0570230**	6010532827		50.017.847		MERCEDES-BENZ
VS-4892	**VE0570230**	70910076		50.017.847		PERKINS (MAXION)
VS-4897	**VA0250018**	46470637/ 46559031	VX 2028 AA	50.017.756	3234-AC	FIAT
VS-4898	**VE0250019**	7633752/ 46470638	VX 2029 AA		23234-ECS	FIAT
VS-4899	**VA0140086**	90215492 / 7083246	VX 2331 AA	50.017.835	3146-AC	GENERAL MOTORS
VS-4900	**VE0140085**	90324412	VX 2334 AA	50.017.836	3147-ECB	GENERAL MOTORS
VS-4902	**VA0760013**	352211	VX 1784 AA	50.017.789	1374-ACB 20°	SCANIA
VS-4904	**VE0760012**	1100997	VX 2019 AA	50.017.790	23395-ECSS	SCANIA
VS-4906	**VA0510045**	14711-383-000	VX 0786 AA	50.017.778	23293-AP	HONDA
VS-4917	**VA0510116**	14711-397-6300	VX 1473 AA	50.017.772	3408-AC	HONDA
VS-4918	**VE0510046**	14721-383-000	VX 0787 AA	50.017.779	23293-EP	HONDA
VS-4919	**VA0700028**	030.109.601.AC	VX 2930 AA	50.017.849	3512-A	VOLKSWAGEN
VS-4934	**VA0710063**	469240/ 4675002/ 8194223	VX 0588 AB	50.017.126	860-AC	VOLVO
VS-4936	**VE0710064**	467855/ 8194224	VX 1085 AB	50.017.127	1861-ECP	VOLVO
VS-4937	**VA0710121**	468302	VX 1594 AA	50.017.124	582-AC	VOLVO
VS-4938	**VE0710120**	468303	VX 1455 AC	50.017.125	1582-ECP	VOLVO
VS-4939	**VA0590174**		V74469A0		3092-AC	FORD
VS-4968	**VE0710201**	8148574/ 20441945				VOLVO
VS-4985	**VA0510115**	14711-440-0030-BR	VX 0989 AA			HONDA
VS-4993	**VA0510029**	14711-KYO-8901-R	VX 2324 AA	50.017.774	3416-AC	HONDA
VS-4994	**VE0510030**	14721-KYO-8901-R	VX 2325 AA	50.017.783	23417-ECBS	HONDA
VS-4995	**VA0510070**	14711-KW1-9000-R	VX 2009 AA	50.017.785	1001-AC	HONDA
VS-4996	**VE0510069**	14721-KW1-9000-R	VX 2018 AA	50.017.786	1002-ECB	HONDA
VS-4997	**VE0510117**	14721-437-0000	VX 0990 AA	50.017.781	23409-ECSS	HONDA
VS-5037	**VA0480193**	5410500226			3856-AC	MERCEDES-BENZ
VS-5086	**VE0140071**	90410813/ 641325	VX 2274 AA		23141-ECBS	GENERAL MOTORS
VS-5094	**VA0140072**	90412277/641022	VX 2909 AA		3140-AC	GENERAL MOTORS
VS-5127	**VA0700009**	036.109.601.R	VX 2875 AA		3508-A	VOLKSWAGEN
VS-5127	**VE0590175**	XS6E6505BB / YS4E.6505.BA	V74470A0		3093-ECBS	FORD
VS-5143	**VA0710203**	1547492		50.017.689		VOLVO
VS-5223	**VE0700008**	036.109.611.J	VX 2989 AA		3509-EB	VOLKSWAGEN
VS-5225	**VE0480194**	5410500227	VX 2951 AB		3857-ECB	MERCEDES-BENZ
VS-5281	**VA2110185**	ON01-12-111		50.017.850	3548-APN	KIA MOTORS
VS-5281	**VA2110185**	ON01-12-111		50.017.850	3548-APN	MAZDA
VS-5282	**VE2110186**	ON01-12-121		50.017.851	3548-EBN	KIA MOTORS
VS-5282	**VE2110186**	ON01-12-121		50.017.851	3548-EBN	MAZDA
VS-5284	**VA2110229**	K710-12-111		50.017.866	3298-AN	KIA MOTORS
VS-5284	**VA2110229**	K710-12-111		50.017.866	3298-AN	MAZDA
VS-5294	**VA0590180**	928M-650-F2-A			3066-AC	FORD
VS-5295	**VE0590182**	948M-6505-D2A			3067-ECB	FORD
VS-5296	**VA2110187**	OK65D12111				KIA MOTORS
VS-618	**VE0570036**	0910002	VX 0091 AA	50.017.705	248-E	PERKINS (MAXION)
VS-620	**VA0570035**	31431261/ 0910001	VX 0092 AB		247-A	PERKINS (MAXION)
VS-770	**VE0230118**	800558	VX 0088 AA	50.017.760	3273-E	FORD WILLYS
VS-770	**VE0230118**	B-27220	VX 0088 AA	50.017.760	3273-E	JEEP
VS-850	**VE0700049**	040.109.612.2	VX 0201 AA	50.017.788	1452-E	VOLKSWAGEN
VS-865	**VA0140108**	2787538/ 3786360	VX 0221 AA +3	50.017.702	137-A+3	GENERAL MOTORS
VS-866	**VA0140110**	3786361/ 3995685	VX 0222 AA +15	50.017.703	137-A+15	GENERAL MOTORS
VS-868	**VA0700050**	040.109.601.1	VX 0435 AF	50.017.715	422-A	VOLKSWAGEN
VS-869	**VA0700020**	040.109.601.2	VX 0434 AG	50.017.716	452-A	VOLKSWAGEN
VS-886	**VE0570031**	70910002	VX 0257 AA	50.017.706	248-E C/P	PERKINS (MAXION)
VS-887	**VA0570032**	70910001/4	VX 0256 AA	50.017.704	247-A C/P	PERKINS (MAXION)

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EATON	MAHLE	ORIGINAL	TRW	KS	3B	LINHA MOTORA
VS-968	**VE0110142**	5S-6449				CATERPILLAR
VS-980	**VE0700062**	056.109.611.A	VX 0429 AA	50.017.072	1422-EB	VOLKSWAGEN
VS-981	**VA0700061**	056.109.601.A	VX 0428 AF		422-AC	VOLKSWAGEN
VS-985	**VE0210149**	3803519				CUMMINS
VS-992	**VA0250002**	43401180	VX 0514 AB	50.017.170	380-AC	FIAT
VS-993	**VE0250001**	59852970	VX 1628 AA	50.017.171	1380-EC	FIAT

KS	MAHLE	ORIGINAL	TRW	EATON	3B	LINHA MOTORA
50.004.507	**VA0700242**	058.109.601.C			3488-AS	AUDI
50.004.507	**VA0700242**	058.109.601.C			3488-AS	VOLKSWAGEN
50.004.508	**VE0700243**	058.109.611.E			3489-ECBS	AUDI
50.004.508	**VE0700243**	058.109.611.E			3489-ECBS	VOLKSWAGEN
50.017.016	**VA0700082**	068.109.601.C	VX 1210 AA	VS-1358	303-AC	VOLKSWAGEN
50.017.017	**VE0700081**	068.109.611.C	VX 1209 AA	VS-1359	1303 ECB	VOLKSWAGEN
50.017.042	**VA0480004**	3520530101	VX 0246 AE	VS-1177	226-AC	MERCEDES-BENZ
50.017.044	**VA0480048**	3460530001	VX 0383 AA	VS-1157	229-AC	MERCEDES-BENZ
50.017.049	**VE0480003**	3520531505	VX 0282 AB	VS-1178	1226-ECB	MERCEDES-BENZ
50.017.055	**VE0480097**	3760500027/ 3660500027	VX 2391 AA (VA1751A)	VS-2091	23260-ECB	MERCEDES-BENZ
50.017.056	**VE0480047**	3460530005	VX 0384 AA	VS-1158	1229-EC	MERCEDES-BENZ
50.017.072	**VE0700062**	056.109.611.A	VX 0429 AA	VS-980	1422-EB	VOLKSWAGEN
50.017.086	**VE0761424**	1854801				SCANIA
50.017.087	**VA0761423**	1887056				SCANIA
50.017.119	**VA0480091**	3550530001	VX 0846 AA	VS-1136	3262-AC	MERCEDES-BENZ
50.017.120	**VE0480090**	3550530005	VX 0847 AA	VS-1137	3263-ECB	MERCEDES-BENZ
50.017.123	**VE0760058**	232018/ 9639417980	VX 0616 AA	VS-1367	1374-ECSS	SCANIA
50.017.124	**VA0710121**	468302	VX 1594 AA	VS-4937	582-AC	VOLVO
50.017.125	**VE0710120**	468303	VX 1455 AC	VS-4938	1582-ECP	VOLVO
50.017.126	**VA0710063**	469240/ 4675002/ 8194223	VX 0588 AB	VS-4934	860-AC	VOLVO
50.017.127	**VE0710064**	467855/ 8194224	VX 1085 AB	VS-4936	1861-ECP	VOLVO
50.017.170	**VA0250002**	43401180	VX 0514 AB	VS-992	380-AC	FIAT
50.017.171	**VE0250001**	59852970	VX 1628 AA	VS-993	1380-EC	FIAT
50.017.199	**VE0130010**	9.3080.460.0024	VX 0305 AA	VS-1135	1565-ECB	FORD
50.017.199	**VE0130010**	9.3080.460.0024	VX 0305 AA	VS-1135	1565-ECB	MWM
50.017.385	**VA0700078**	049.109.601.F	VX 1202 AA	VS-1356		VOLKSWAGEN
50.017.386	**VE0700077**	049.109.611.F	VX 1203 AA	VS-1357	1825-E	VOLKSWAGEN
50.017.389	**VA0480096**	3760530001	VX 2390 AA (VA1648A)	VS-2587	2026-AC 30°	MERCEDES-BENZ
50.017.390	**VE0480005**	3660500227	VX 2389 AA	VS-2535	23260-ECB	MERCEDES-BENZ
50.017.391	**VA0480006**	3760530101	VX 2388 AA	VS-1814	3260-ACB	MERCEDES-BENZ
50.017.396	**VA0700017**	035.109.601.C	VX 1368 AA	VS-1646	815-AC	VOLKSWAGEN
50.017.397	**VE0700016**	035.109.611.F	VX 1472 AA	VS-1696	1815-EB	FORD
50.017.397	**VE0700016**	035.109.611.F	VX 1472 AA	VS-1696	1815-EB	VOLKSWAGEN
50.017.635	**VE0510210**	14721-PO8000				HONDA
50.017.667	**VE0710201**	8148574/ 20441945		VS-4968		VOLVO
50.017.689	**VA0710203**	1547492		VS-5143		VOLVO
50.017.700	**VA0140106**	3695455/ 3758810	VX 0013 AA	VS-0040	135-A	GENERAL MOTORS
50.017.701	**VA0140104**	2638552/ 3774052	VX 0220 AB	VS-1202	137-A	GENERAL MOTORS
50.017.702	**VA0140108**	2787538/ 3786360	VX 0221 AA +3	VS-865	137-A+3	GENERAL MOTORS
50.017.703	**VA0140110**	3786361/ 3995685	VX 0222 AA +15	VS-866	137-A+15	GENERAL MOTORS
50.017.704	**VA0570032**	70910001/4	VX 0256 AA	VS-887	247-A C/P	PERKINS (MAXION)
50.017.705	**VE0570036**	0910002	VX 0091 AA	VS-618	248-E	PERKINS (MAXION)
50.017.706	**VE0570031**	70910002	VX 0257 AA	VS-886	248-E C/P	PERKINS (MAXION)
50.017.707	**VA0570033**	0910030/ 0910069	VX 0090 AA	VS-1754	250-AMF	FORD
50.017.707	**VA0570033**	0910030/ 0910069	VX 0090 AA	VS-1754	250-AMF	PERKINS (MAXION)
50.017.708	**VA0590094**	78MU-6507-A	VX 0756 AA	VS-1132	326-A	FORD
50.017.710	**VA0140084**	94621104/1038	VX 1550 AA	VS-1299	332-AC	GENERAL MOTORS
50.017.713	**VA0140114**	90136614/6613	VX 1220 AA	VS-1415	344-AC	GENERAL MOTORS
50.017.714	**VA0250060**	4239917/ 4460697	VX 2220 AA	VS-2556	175-AC	FIAT
50.017.715	**VA0700050**	040.109.601.1	VX 0435 AF	VS-868	422-A	VOLKSWAGEN
50.017.716	**VA0700020**	040.109.601.2	VX 0434 AG	VS-869	452-A	VOLKSWAGEN
50.017.717	**VA0130011**	9.2260.460.0054	VX 0304 AA	VS-1134	565-AC	FORD
50.017.717	**VA0130011**	9.2260.460.0054	VX 0304 AA	VS-1134	565-AC	MWM
50.017.720	**VA0250054**	7617500	VX 2399 AA	VS-2692	856-AC	FIAT

KS	MAHLE	ORIGINAL	TRW	EATON	3B	LINHA MOTORA
50.017.721	**VE0140105**	3724778/ 3989084	VX 0219 AB - STD	VS-1201	1138-EG	GENERAL MOTORS
50.017.722	**VE0140107**	3732758	VX 0238 AA +3	VS-1335	1138-EG+3	GENERAL MOTORS
50.017.723	**VE0140109**	7323108/ 3995603	VX 0239 AA +15	VS-1481	1138-EG+15	GENERAL MOTORS
50.017.727	**VE0570034**	0910041/ 0910073	VX 0087 AA	VS-457	1251-EPMF	FORD
50.017.727	**VE0570034**	0910041/ 0910073	VX 0087 AA	VS-457	1251-EPMF	PERKINS (MAXION)
50.017.728	**VE0700021**	43109611	VX 0785 AB	VS-1317	1305-ECP	VOLKSWAGEN
50.017.729	**VE0590092**	78MU-6505-B	VX 0757 AA	VS-1204	1326-E	FORD
50.017.732	**VE0140083**	94621105/1043	VX 0365 AC	VS-1302	1332-ECP	GENERAL MOTORS
50.017.736	**VE0140113**	90136620/6621	VX 1221 AA	VS-1658	1344-ECP	GENERAL MOTORS
50.017.737	**VE0250059**	5973129	VX 2221 AA	VS-2557	1383-EC	FIAT
50.017.738	**VE0700022**	311.109.612	VX 0366 AD	VS-1167	1453-E	VOLKSWAGEN
50.017.739	**VA0570111**	31431723/ 70910011	VX 0440 AA	VS-1423	1498-ACP	FORD
50.017.739	**VA0570111**	31431723/ 70910011	VX 0440 AA	VS-1423	1498-ACP	PERKINS (MAXION)
50.017.740	**VE0570112**	70910012	VX 0441 AA	VS-1424	1498-ECP	FORD
50.017.740	**VE0570112**	70910012	VX 0441 AA	VS-1424	1498-ECP	PERKINS (MAXION)
50.017.743	**VA0510191**	14711-413-000				HONDA
50.017.744	**VE0510192**	14721-413-000				HONDA
50.017.745	**VA0250159**	7547400	VX 2047 AB	VS-2873	1826-AC	FIAT
50.017.747	**VA0590043**	84AU-6507-A	VX 1320 AA	VS-2489	3036-A	FORD
50.017.748	**VE0590042**	84AU-6505-A	VX 1319 AA	VS-2465	3037-EP	FORD
50.017.749	**VA0590093**	59112	VX 0250 AA	VS-1205	3038-A	FORD
50.017.752	**VA0140040**	90220119	VX 1699 AA	VS-1980	3109-AC	GENERAL MOTORS
50.017.753	**VA0140041**	52285384	VX 2034 AA	VS-1660	3045-ECP	GENERAL MOTORS
50.017.754	**VA0140015**	90323518/ 642763	VX 2332 AA	VS-4261	3136-AC	GENERAL MOTORS
50.017.755	**VE0140014**	90.323.523/ 642890	VX 2333 AA	VS-4262	3137-ECB	GENERAL MOTORS
50.017.756	**VA0250018**	46470637/ 46559031	VX 2028 AA	VS-4897	3234-AC	FIAT
50.017.757	**VA0480080**	3450537001	VX 1565 AA	VS-1129	843-AC	MERCEDES-BENZ
50.017.758	**VE0480079**	3450500127/7005	VX 1566 AA	VS-1128	1843-ECP	MERCEDES-BENZ
50.017.759	**VA0230119**	800558	VX 0023 AA	VS-0016	3272-A	FORD WILLYS
50.017.760	**VE0230118**	800558	VX 0088 AA	VS-770	3273-E	FORD WILLYS
50.017.760	**VE0230118**	B-27220	VX 0088 AA	VS-770	3273-E	JEEP
50.017.761	**VA0250052**	7722907	VX 2607 AA	VS-4530	3320-AC	FIAT
50.017.762	**VE0250051**	7574742	VX 2608 AA	VS-4531	3321-ECB	FIAT
50.017.767	**VA0130099**	622804603014	VX 0692 AA	VS-2696	3390-AC	MWM
50.017.768	**VE0130098**	9.229.0.460.003.4	VX 1975 AA	VS-2695	3391-ECB	MWM
50.017.769	**VA0570038**	70910017	VX 1912 AA	VS-2815	3392-AC	GENERAL MOTORS
50.017.769	**VA0570038**	70910017	VX 1912 AA	VS-2815	3392-AC	PERKINS (MAXION)
50.017.770	**VE0570037**	70910018	VX 1913 AA	VS-2816	3393-ECB	GENERAL MOTORS
50.017.770	**VE0570037**	70910018	VX 1913 AA	VS-2816	3393-ECB	PERKINS (MAXION)
50.017.771	**VA0510130**	14711-428-000				HONDA
50.017.772	**VA0510116**	14711-397-6300	VX 1473 AA	VS-4917	3408-AC	HONDA
50.017.773	**VA0510132**	14711-KGO-000				HONDA
50.017.774	**VA0510029**	14711-KYO-8901-R	VX 2324 AA	VS-4993	3416-AC	HONDA
50.017.778	**VA0510045**	14711-383-000	VX 0786 AA	VS-4906	23293-AP	HONDA
50.017.779	**VE0510046**	14721-383-000	VX 0787 AA	VS-4918	23293-EP	HONDA
50.017.780	**VE0510131**	14721-471-000				HONDA
50.017.781	**VE0510117**	14721-437-0000	VX 0990 AA	VS-4997	23409-ECSS	HONDA
50.017.782	**VE0510133**	14721-KGO-000				HONDA
50.017.783	**VE0510030**	14721-KYO-8901-R	VX 2325 AA	VS-4994	23417-ECBS	HONDA
50.017.784	**VE0510135**	14721-KFO-000				HONDA
50.017.785	**VA0510070**	14711-KW1-9000-R	VX 2009 AA	VS-4995	1001-AC	HONDA
50.017.786	**VE0510069**	14721-KW1-9000-R	VX 2018 AA	VS-4996	1002-ECB	HONDA
50.017.787	**VE0250053**	5973128	VX 2400 AA	VS-2691	1175-ECSS	FIAT
50.017.788	**VE0700049**	040.109.612.2	VX 0201 AA	VS-850	1452-E	VOLKSWAGEN
50.017.789	**VA0760013**	352211	VX 1784 AA	VS-4902	1374-ACB 20°	SCANIA
50.017.790	**VE0760012**	1100997	VX 2019 AA	VS-4904	23395-ECSS	SCANIA

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KS	MAHLE	ORIGINAL	TRW	EATON	3B	LINHA MOTORA
50.017.792	**VA0570024**	31431315	VX 0602 AA	VS-1160	249-AC	GENERAL MOTORS
50.017.792	**VA0570024**	31431315	VX 0602 AA	VS-1160	249-AC	PERKINS (MAXION)
50.017.793	**VE0570023**	31431851	VX 0604 AA	VS-1161	1249-ECP	GENERAL MOTORS
50.017.793	**VE0570023**	31431851	VX 0604 AA	VS-1161	1249-ECP	PERKINS (MAXION)
50.017.794	**VA0480007**	366.050.1226	VX 2811 AA	VS-2770	3260-ACB-20°	MERCEDES-BENZ
50.017.797	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	814-AC	FORD
50.017.797	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	814-AC	VOLKSWAGEN
50.017.801	**VE0590178**	X56G6505B2A				FORD
50.017.826	**VA0590066**	035109601G	VX 1812 AB	VS-4762	3312-A	FORD
50.017.826	**VA0590066**	035109601G	VX 1812 AB	VS-4762	3312-A	VOLKSWAGEN
50.017.835	**VA0140086**	90215492 / 7083246	VX 2331 AA	VS-4899	3146-AC	GENERAL MOTORS
50.017.836	**VE0140085**	90324412	VX 2334 AA	VS-4900	3147-ECB	GENERAL MOTORS
50.017.837	**VA0140076**	90412712	VX 2463 AA		3138-AC	GENERAL MOTORS
50.017.838	**VE0140075**	90412974	VX 2925 AA		3139-EC	GENERAL MOTORS
50.017.843	**VA0510134**	14711-KL3-670				HONDA
50.017.844	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	VS-2825	3422-AC	MWM
50.017.844	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	VS-2825	3422-AC	VOLKSWAGEN
50.017.844	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	VS-2824	23423-ECBS	MWM
50.017.844	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	VS-2824	23423-ECBS	VOLKSWAGEN
50.017.847	**VE0570230**	6010532827		VS-4892		MERCEDES-BENZ
50.017.847	**VE0570230**	70910076		VS-4892		PERKINS (MAXION)
50.017.849	**VA0700028**	030.109.601.AC	VX 2930 AA	VS-4919	3512-A	VOLKSWAGEN
50.017.850	**VA2110185**	ON01-12-111		VS-5281	3548-APN	KIA MOTORS
50.017.850	**VA2110185**	ON01-12-111		VS-5281	3548-APN	MAZDA
50.017.851	**VE2110186**	ON01-12-121		VS-5282	3548-EBN	KIA MOTORS
50.017.851	**VE2110186**	**ON01-12-121**		**VS-5282**	**3548-EBN**	**MAZDA**
50.017.857	**VA0720154**					**ASIA MOTORS**
50.017.858	**VE0720155**					**ASIA MOTORS**
50.017.866	**VA2110229**	**K710-12-111**		**VS-5284**	**3298-AN**	**KIA MOTORS**
50.017.866	**VA2110229**	**K710-12-111**		**VS-5284**	**3298-AN**	**MAZDA**
50.017.870	**VA0590179**	**97MM6507BB2B**			**3064-AC**	**FORD**
50.017.897	**VA0011469**	**500355778**				**IVECO**
50.017.898	**VE0011470**	**504293892**				**IVECO**
50.017.926	**VA0510263**	**14711-PWA-000**				**HONDA**
50.017.927	**VE0510264**	**14721-PWA-000**				**HONDA**
50.017.928	**VA0510265**	**14711-PWC-000**				**HONDA**
50.017.929	**VE0510266**	**14721-PWC-000**				**HONDA**
50.017.930	**VA0510257**	**14711-RNA-A000**				**HONDA**
50.017.935	**VA0180393**	**8200708663**			**3526-A**	**RENAULT**
50.017.936	**VE0180310**	**8200708662**			**3527-E**	**RENAULT**
50.017.972	**VE0251476**	**55218807**				**FIAT**

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3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
1001-AC	**VA0510070**	14711-KW1-9000-R	VX 2009 AA	VS-4995	50.017.785	HONDA
1002-ECB	**VE0510069**	14721-KW1-9000-R	VX 2018 AA	VS-4996	50.017.786	HONDA
1138-EG	**VE0140105**	3724778/ 3989084	VX 0219 AB - STD	VS-1201	50.017.721	GENERAL MOTORS
1138-EG+3	**VE0140107**	3732758	VX 0238 AA +3	VS-1335	50.017.722	GENERAL MOTORS
1138-EG+15	**VE0140109**	7323108/ 3995603	VX 0239 AA +15	VS-1481	50.017.723	GENERAL MOTORS
1175-ECSS	**VE0250053**	5973128	VX 2400 AA	VS-2691	50.017.787	FIAT
1226-ECB	**VE0480003**	3520531505	VX 0282 AB	VS-1178	50.017.049	MERCEDES-BENZ
1229-EC	**VE0480047**	3460530005	VX 0384 AA	VS-1158	50.017.056	MERCEDES-BENZ
1229-EC+0.4	**VE0480047+04**					MERCEDES-BENZ
1229-EC+0.8	**VE0480047+08**					MERCEDES-BENZ
1246-EC	**VE0440583**	7581717000				PEUGEOT
1246-EC+0.4	**VE0440583+04**					PEUGEOT
1246-EC+0.8	**VE0440583+08**					PEUGEOT
1249-ECP	**VE0570023**	31431851	VX 0604 AA	VS-1161	50.017.793	GENERAL MOTORS
1249-ECP	**VE0570023**	31431851	VX 0604 AA	VS-1161	50.017.793	PERKINS (MAXION)
1251-EPMF	**VE0570034**	0910041/ 0910073	VX 0087 AA	VS-457	50.017.727	FORD
1251-EPMF	**VE0570034**	0910041/ 0910073	VX 0087 AA	VS-457	50.017.727	PERKINS (MAXION)
1303-ECB	**VE0700081**	068.109.611.C	VX 1209 AA	VS-1359	50.017.017	VOLKSWAGEN
1305-ECP	**VE0700021**	43109611	VX 0785 AB	VS-1317	50.017.728	VOLKSWAGEN
1326-E	**VE0590092**	78MU-6505-B	VX 0757 AA	VS-1204	50.017.729	FORD
1332-ECP	**VE0140083**	94621105/1043	VX 0365 AC	VS-1302	50.017.732	GENERAL MOTORS
1332-ECP+3	**VE0140083 0,076**	94621045				GENERAL MOTORS
1332-ECP+5	**VE0140083 0,127**					GENERAL MOTORS
1332-ECP+06	**VE0140083 0,152**	94621047				GENERAL MOTORS
1332-ECP+10	**VE0140083 0,254**					GENERAL MOTORS
1332-ECP+12	**VE0140083 0,304**	94621609				GENERAL MOTORS
1332-ECP+15	**VE0140083 0,381**					GENERAL MOTORS
1332-ECP+20	**VE0140083 0,508**					GENERAL MOTORS
1332-ECP+30	**VE0140083 0,762**					GENERAL MOTORS
1344-ECP	**VE0140113**	90136620/6621	VX 1221 AA	VS-1658	50.017.736	GENERAL MOTORS
1344-ECP+3	**VE0140113 0,076**	90136622				GENERAL MOTORS
1344-ECP+15	**VE0140113 0,381**					GENERAL MOTORS
1344-ECP+30	**VE0140113 0,762**	90136624				GENERAL MOTORS
135-A	**VA0140106**	3695455/ 3758810	VX 0013 AA	VS-0040	50.017.700	GENERAL MOTORS
1374-ACB 20°	**VA0760013**	352211	VX 1784 AA	VS-4902	50.017.789	SCANIA
1374-ECSS	**VE0760058**	232018/ 9639417980	VX 0616 AA	VS-1367	50.017.123	SCANIA
137-A	**VA0140104**	2638552/ 3774052	VX 0220 AB	VS-1202	50.017.701	GENERAL MOTORS
137-A+15	**VA0140110**	3786361/ 3995685	VX 0222 AA +15	VS-866	50.017.703	GENERAL MOTORS
137-A+3	**VA0140108**	2787538/ 3786360	VX 0221 AA +3	VS-865	50.017.702	GENERAL MOTORS
1380-EC	**VE0250001**	59852970	VX 1628 AA	VS-993	50.017.171	FIAT
1383-EC	**VE0250059**	5973129	VX 2221 AA	VS-2557	50.017.737	FIAT
1422-EB	**VE0700062**	056.109.611.A	VX 0429 AA	VS-980	50.017.072	VOLKSWAGEN

3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
1452-E	**VE0700049**	040.109.612.2	VX 0201 AA	VS-850	50.017.788	VOLKSWAGEN
1453-E	**VE0700022**	311.109.612	VX 0366 AD	VS-1167	50.017.738	VOLKSWAGEN
1498-ACP	**VA0570111**	31431723/ 70910011	VX 0440 AA	VS-1423	50.017.739	FORD
1498-ACP	**VA0570111**	31431723/ 70910011	VX 0440 AA	VS-1423	50.017.739	PERKINS (MAXION)
1498-ECP	**VE0570112**	70910012	VX 0441 AA	VS-1424	50.017.740	FORD
1498-ECP	**VE0570112**	70910012	VX 0441 AA	VS-1424	50.017.740	PERKINS (MAXION)
1561-EB	**VE0110234**	9L-7683				CATERPILLAR
1565-ECB	**VE0130010**	9.3080.460.0024	VX 0305 AA	VS-1135	50.017.199	FORD
1565-ECB	**VE0130010**	9.3080.460.0024	VX 0305 AA	VS-1135	50.017.199	MWM
1582-ECP	**VE0710120**	468303	VX 1455 AC	VS-4938	50.017.125	VOLVO
175-AC	**VA0250060**	4239917/ 4460697	VX 2220 AA	VS-2556	50.017.714	FIAT
1815-EB	**VE0700016**	035.109.611.F	VX 1472 AA	VS-1696	50.017.397	FORD
1815-EB	**VE0700016**	035.109.611.F	VX 1472 AA	VS-1696	50.017.397	VOLKSWAGEN
1825-E	**VE0700077**	049.109.611.F	VX 1203 AA	VS-1357	50.017.386	VOLKSWAGEN
1826-ECB	**VE0250158**	7597080	VX 2392 AA			FIAT
1826-AC	**VA0250159**	7547400	VX 2047 AB	VS-2873	50.017.745	FIAT
1839-ACB	**VA0480056**	4220500226/ 4420500526	VX 2387 AA	VS-2520		MERCEDES-BENZ
1839-ECB	**VE0480055**	4220500127/ 4420500227	VX 2600 AA	VS-4362		MERCEDES-BENZ
1843-ECP	**VE0480079**	3450500127/7005	VX 1566 AA	VS-1128	50.017.758	MERCEDES-BENZ
1843-ECP+0.4	**VE0480079+04**					MERCEDES-BENZ
1843-ECP+0.8	**VE0480079+08**					MERCEDES-BENZ
1861-ECP	**VE0710064**	467855/ 8194224	VX 1085 AB	VS-4936	50.017.127	VOLVO
2026-AC 30°	**VA0480096**	3760530001	VX 2390 AA (VA1648A)	VS-2587	50.017.389	MERCEDES-BENZ
2026-AC 30° +0.4	**VA0480096+04**					MERCEDES-BENZ
2026-AC 30° +0.8	**VA0480096+08**					MERCEDES-BENZ
226-AC	**VA0480004**	3520530101	VX 0246 AE	VS-1177	50.017.042	MERCEDES-BENZ
229-AC	**VA0480048**	3460530001	VX 0383 AA	VS-1157	50.017.044	MERCEDES-BENZ
229-AC+0.4	**VA0480048+04**					MERCEDES-BENZ
229-AC+0.8	**VA0480048+08**					MERCEDES-BENZ
23109-ECP	**VE0140039**	90323756	VX 2059 AA			GENERAL MOTORS
23141-ECBS	**VE0140071**	90410813/ 641325	VX 2274 AA	VS-5086		GENERAL MOTORS
23210-EBS	**VE0110146**	6N-9916/ 1487455		VS-2402		CATERPILLAR
23234-ECS	**VE0250019**	7633752/ 46470638	VX 2029 AA	VS-4898		FIAT
23238-EB	**VE0590065**	026 109 611 A				FORD
23238-EB	**VE0590065**	026 109 611 A				VOLKSWAGEN
23241-ECP	**VE0440581**	9350111780				GENERAL MOTORS
23241-ECP	**VE0440581**	9350111780				PEUGEOT
23241-ECP+0.4	**VE0440581+04**					GENERAL MOTORS
23241-ECP+0.4	**VE0440581+04**					PEUGEOT
23241-ECP+0.8	**VE0440581+08**					GENERAL MOTORS
23241-ECP+0.8	**VE0440581+08**					PEUGEOT
23242-E	**VE0440588**	094959				PEUGEOT
23260-ECB	**VE0480005**	3660500227	VX 2389 AA	VS-2535	50.017.390	MERCEDES-BENZ
23260-ECB	**VE0480097**	3760500027/ 3660500027	VX 2391 AA (VA1751A)	VS-2091	50.017.055	MERCEDES-BENZ
23260-ECB+0.4	**VE0480005+04**					MERCEDES-BENZ
23260-ECB+0.4	**VE0480097+04**					MERCEDES-BENZ

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3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
23260-ECB+0.8	**VE0480005+08**					MERCEDES-BENZ
23260-ECB+0.8	**VE0480097+08**					MERCEDES-BENZ
23293-AP	**VA0510045**	14711-383-000	VX 0786 AA	VS-4906	50.017.778	HONDA
23293-EP	**VE0510046**	14721-383-000	VX 0787 AA	VS-4918	50.017.779	HONDA
23301-ECB	**VE0440585**	9153501980				CITROËN
23301-ECB	**VE0440585**	9153501980				PEUGEOT
23345-ECBS	**VE0570230**	70910054				FORD
23345-ECBS	**VE0570230**	70910054				GENERAL MOTORS
23395-ECSS	**VE0760012**	1100997	VX 2019 AA	VS-4904	50.017.790	SCANIA
23409-ECSS	**VE0510117**	14721-437-0000	VX 0990 AA	VS-4997	50.017.781	HONDA
23417-ECBS	**VE0510030**	14721-KYO-8901-R	VX 2325 AA	VS-4994	50.017.783	HONDA
23423-ECBS	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	VS-2824	50.017.844	MWM
23423-ECBS	**VE0130100**	9.610.0.460.002.4	VX 2124 AA	VS-2824	50.017.844	VOLKSWAGEN
247-A	**VA0570035**	31431261/ 0910001	VX 0092 AB	VS-620		PERKINS (MAXION)
247-A C/P	**VA0570032**	70910001/4	VX 0256 AA	VS-887	50.017.704	PERKINS (MAXION)
247-A+0.4	**VA0570035+04**					PERKINS (MAXION)
247-A+0.8	**VA0570035+08**					PERKINS (MAXION)
248-E	**VE0570036**	0910002	VX 0091 AA	VS-618	50.017.705	PERKINS (MAXION)
248-E C/P	**VE0570031**	70910002	VX 0257 AA	VS-886	50.017.706	PERKINS (MAXION)
249-AC	**VA0570024**	31431315	VX 0602 AA	VS-1160	50.017.792	GENERAL MOTORS
249-AC	**VA0570024**	31431315	VX 0602 AA	VS-1160	50.017.792	PERKINS (MAXION)
250-AMF	**VA0570033**	0910030/ 0910069	VX 0090 AA	VS-1754	50.017.707	FORD
250-AMF	**VA0570033**	0910030/ 0910069	VX 0090 AA	VS-1754	50.017.707	PERKINS (MAXION)
3036-A	**VA0590043**	84AU-6507-A	VX 1320 AA	VS-2489	50.017.747	FORD
3037-EP	**VE0590042**	84AU-6505-A	VX 1319 AA	VS-2465	50.017.748	FORD
3038-A	**VA0590093**	59112	VX 0250 AA	VS-1205	50.017.749	FORD
303-AC	**VA0700082**	068.109.601.C	VX 1210 AA	VS-1358	50.017.016	VOLKSWAGEN
3043-ECP	**VE0590276**	F77Z-6505-AA/ 90TM-6505-AB				FORD
3045-ECP	**VA0140041**	52285384	VX 2034 AA	VS-1660	50.017.753	GENERAL MOTORS
3052-AC	**VA0590181**	89BM-6507AA				FORD
3053-ECB	**VE0590173**	97BM-6505-AA				FORD
3062-AC	**VA0590170**	XS6E6507AA	V76175A0			FORD
3063-ECB	**VE0590171**	XS6E6505AB / 7S6G.6505.AA	V76176A0			FORD
3064-AC	**VA0590179**	97MM6507BB2B			50.017.870	FORD
3066-AC	**VA0590180**	928M-650-F2-A		VS-5294		FORD
3067-ECB	**VE0590182**	948M-6505-D2A		VS-5295		FORD
3092-AC	**VA0590174**		V74469A0	VS-4939		FORD
3093-ECBS	**VE0590175**	XS6E6505BB / YS4E.6505.BA	V74470A0	VS-5127		FORD
3094-AC	**VA0590255**	1S7Z-6507-AA				FORD
3095-EC	**VE0590256**	1S7Z-6505-AA				FORD
3109-AC	**VA0140040**	90220119	VX 1699 AA	VS-1980	50.017.752	GENERAL MOTORS
3136-AC	**VA0140015**	90323518/ 642763	VX 2332 AA	VS-4261	50.017.754	GENERAL MOTORS
3137-ECB	**VE0140014**	90.323.523/ 642890	VX 2333 AA	VS-4262	50.017.755	GENERAL MOTORS
3138-AC	**VA0140076**	90412712	VX 2463 AA		50.017.837	GENERAL MOTORS
3139-EC	**VE0140075**	90412974	VX 2925 AA		50.017.838	GENERAL MOTORS
3140-AC	**VA0140072**	90412277/641022	VX 2909 AA	VS-5094		GENERAL MOTORS
3146-AC	**VA0140086**	90215492 / 7083246	VX 2331 AA	VS-4899	50.017.835	GENERAL MOTORS
3147-ECB	**VE0140085**	90324412	VX 2334 AA	VS-4900	50.017.836	GENERAL MOTORS

3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
3163-ECP	**VE0140184**	12550909				GENERAL MOTORS
3234-AC	**VA0250018**	46470637/ 46559031	VX 2028 AA	VS-4897	50.017.756	FIAT
3241-AC	**VA0440567**	9350111580/480				GENERAL MOTORS
3241-AC	**VA0440567**	9350111580/480				PEUGEOT
3241-AC+0.4	**VA0440567+04**					GENERAL MOTORS
3241-AC+0.4	**VA0440567+04**					PEUGEOT
3241-AC+0.8	**VA0440567+08**					GENERAL MOTORS
3241-AC+0.8	**VA0440567+08**					PEUGEOT
3260-ACB	**VA0480006**	3760530101	VX 2388 AA	VS-1814	50.017.391	MERCEDES-BENZ
3260-ACB+0.4	**VA0480006+04**					MERCEDES-BENZ
3260-ACB+0.8	**VA0480006+08**					MERCEDES-BENZ
3260-ACB-20°	**VA0480007**	366.050.1226	VX 2811 AA	VS-2770	50.017.794	MERCEDES-BENZ
3262-AC	**VA0480091**	3550530001	VX 0846 AA	VS-1136	50.017.119	MERCEDES-BENZ
3263-ECB	**VE0480090**	3550530005	VX 0847 AA	VS-1137	50.017.120	MERCEDES-BENZ
326-A	**VA0590094**	78MU-6507-A	VX 0756 AA	VS-1132	50.017.708	FORD
3272-A	**VA0230119**	800558	VX 0023 AA	VS-0016	50.017.759	FORD WILLYS
3273-E	**VE0230118**	800558	VX 0088 AA	VS-770	50.017.760	FORD WILLYS
3273-E	**VE0230118**	B-27220	VX 0088 AA	VS-770	50.017.760	JEEP
3298-AN	**VA2110229**	K710-12-111		VS-5284	50.017.866	KIA MOTORS
3298-AN	**VA2110229**	K710-12-111		VS-5284	50.017.866	MAZDA
3299-EN	**VE2110249**	K710-12-121				KIA MOTORS
3299-EN	**VE2110249**	K710-12-121				MAZDA
3301-AC	**VA0440551**	9153501780				CITROËN
3301-AC	**VA0440551**	9153501780				PEUGEOT
3308-AC	**VA0180389**	7702220678				RENAULT
3312-A	**VA0590066**	035109601G	VX 1812 AB	VS-4762	50.017.826	FORD
3312-A	**VA0590066**	035109601G	VX 1812 AB	VS-4762	50.017.826	VOLKSWAGEN
3320-AC	**VA0250052**	7722907	VX 2607 AA	VS-4530	50.017.761	FIAT
3321-ECB	**VE0250051**	7574742	VX 2608 AA	VS-4531	50.017.762	FIAT
332-AC	**VA0140084**	94621104/1038	VX 1550 AA	VS-1299	50.017.710	GENERAL MOTORS
332-AC+3	**VA0140084 0,076**	94621039/1040				GENERAL MOTORS
332-AC+5	**VA0140084 0,127**					GENERAL MOTORS
332-AC+06	**VA0140084 0,152**	94621041				GENERAL MOTORS
332-AC+10	**VA0140084 0,254**					GENERAL MOTORS
332-AC+12	**VA0140084 0,304**	94621607				GENERAL MOTORS
332-AC+15	**VA0140084 0,381**					GENERAL MOTORS
332-AC+20	**VA0140084 0,508**					GENERAL MOTORS
332-AC+30	**VA0140084 0,762**					GENERAL MOTORS
3334-AC	**VA0210153**	3924492/ 3802463		VS-4309		CUMMINS
3334-AC	**VA0210153**	3924492/ 3902253		VS-4309		FORD
3334-AC	**VA0210153**	3924492/ 3802463		VS-4309		VOLKSWAGEN
3335-ECP	**VE0210152**	3921444/ 3802085		VS-4308		CUMMINS
3335-ECP	**VE0210152**	3921444/ 3902254		VS-4308		FORD
3335-ECP	**VE0210152**	3921444/ 3802085		VS-4308		VOLKSWAGEN
3342-AC	**VA0570123**	70910025/35	VX 2299 AA	VS-2831		GENERAL MOTORS
3342-AC	**VA0570123**	70910025/35	VX 2299 AA	VS-2831		PERKINS (MAXION)
3344-ACB	**VA0570250**	70910053				FORD
3344-ACB	**VA0570250**	70910053				GENERAL MOTORS
3344-ACB	**VA0570250**	6010531901				MERCEDES-BENZ
3344-ACB	**VA0570250**	70910053				PERKINS (MAXION)
3388-ACB	**VA0570657**	70910096 (70910037)				GENERAL MOTORS
3388-ACB	**VA0570657**	70910096 (70910037)				PERKINS (MAXION)

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3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
3390-AC	**VA0130099**	622804603014	VX 0692 AA	VS-2696	50.017.767	MWM
3391-ECB	**VE0130098**	9.229.0.460.003.4	VX 1975 AA	VS-2695	50.017.768	MWM
3392-AC	**VA0570038**	70910017	VX 1912 AA	VS-2815	50.017.769	GENERAL MOTORS
3392-AC	**VA0570038**	70910017	VX 1912 AA	VS-2815	50.017.769	PERKINS (MAXION)
3393-ECB	**VE0570037**	70910018	VX 1913 AA	VS-2816	50.017.770	GENERAL MOTORS
3393-ECB	**VE0570037**	70910018	VX 1913 AA	VS-2816	50.017.770	PERKINS (MAXION)
3408-AC	**VA0510116**	14711-397-6300	VX 1473 AA	VS-4917	50.017.772	HONDA
3416-AC	**VA0510029**	14711-KYO-8901-R	VX 2324 AA	VS-4993	50.017.774	HONDA
3422-AC	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	VS-2825	50.017.844	MWM
3422-AC	**VA0130101**	9.610.0.460.003.4	VX 2123 AA	VS-2825	50.017.844	VOLKSWAGEN
344-AC	**VA0140114**	90136614/6613	VX 1220 AA	VS-1415	50.017.713	GENERAL MOTORS
344-AC+3	**VA0140114 0,076**	90136615				GENERAL MOTORS
344-AC+15	**VA0140114 0,381**	90136616				GENERAL MOTORS
344-AC+30	**VA0140114 0,762**	90136617				GENERAL MOTORS
3464-AN	**VA1950261**	MD-159502				MITSUBISHI
3465-EBM	**VE1950262**	MD-197106				MITSUBISHI
3466-AC	**VA0210151**	3920867/ 3802355		VS-4307		CUMMINS
3466-AC	**VA0210151**	3920867/ 3802356		VS-4307		FORD
3466-AC	**VA0210151**	3920867/ 3802356		VS-4307		VOLKSWAGEN
3467-ECB	**VE0210150**	3920868/ 3802356		VS-4306		CUMMINS
3467-ECB	**VE0210150**	3920868/ 3802356		VS-4306		FORD
3467-ECB	**VE0210150**	3920868/ 3802356		VS-4306		VOLKSWAGEN
3484-AB	**VA0700088**	048.109.601.E	VX 2923 AA	VS-4510		VOLKSWAGEN
3485-EBS	**VE0700087**	048.109.611.C	VX 2976 AA	VS-4511		VOLKSWAGEN
3486-A	**VA0700089**	078.109.601.B	VX 2975 AA	VS-4546		VOLKSWAGEN
3488-AS	**VA0700242**	058.109.601.C			50.004.507	AUDI
3488-AS	**VA0700242**	058.109.601.C			50.004.507	VOLKSWAGEN
3489-ECBS	**VE0700243**	058.109.611.E			50.004.508	AUDI
3489-ECBS	**VE0700243**	058.109.611.E			50.004.508	VOLKSWAGEN
3508-A	**VA0700009**	036.109.601.R	VX 2875 AA	VS-5127		VOLKSWAGEN
3509-EB	**VE0700008**	036.109.611.J	VX 2989 AA	VS-5223		VOLKSWAGEN
3510-ACB	**VA0010211**	7301820				IVECO
3510-ACB	**VA0010211**	7301820				PEUGEOT
3512-A	**VA0700028**	030.109.601.AC	VX 2930 AA	VS-4919	50.017.849	VOLKSWAGEN
3513-EB	**VE0700027**	030.109.611.AC	VX 2931 AA	VS-4856		VOLKSWAGEN
3514-AC	**VA0250165**					FIAT
3515-EC	**VE0250164**					FIAT
3526-A	**VA0180393**					RENAULT
3527-E	**VE0180310**					RENAULT
3540-A	**VA0440561**	094892/ 9628943380				PEUGEOT
3541-ECB	**VE0440297**	0949A6/ 962981180				PEUGEOT
3542-A	**VA0440557**	094866/ 9605936180				PEUGEOT
3546-AC	**VA0130277**	9.4070.460.0034				GENERAL MOTORS
3546-AC	**VA0130277**	9.4070.460.0034				MWM
3547-ECBS	**VE0130278**	9.4070.460.0024				GENERAL MOTORS
3547-ECBS	**VE0130278**	9.4070.460.0024				MWM
3548-APN	**VA2110185**	ON01-12-111		VS-5281	50.017.850	KIA MOTORS
3548-APN	**VA2110185**	ON01-12-111		VS-5281	50.017.850	MAZDA
3548-EBN	**VE2110186**	ON01-12-121		VS-5282	50.017.851	KIA MOTORS
3548-EBN	**VE2110186**	ON01-12-121		VS-5282	50.017.851	MAZDA
3558-AC	**VA0250166**	46553048				FIAT
3559-ECBS	**VE0250163**	46553049				FIAT
3576-A	**VA0440569**	094861/ 9626052980				PEUGEOT
3578-AC	**VA0140026**	93248325	VX 2996 AA			GENERAL MOTORS
3579-ECB	**VE0140025**	93248326	VX 2997 AA			GENERAL MOTORS
3580-AN	**VA1950247**	ME-202687				MITSUBISHI
3581-EBN	**VE1950246**	ME-202688				MITSUBISHI
3586-ACB	**VA0250513**	98468338				CITROËN

3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
3586-ACB	**VA0250513**	98468338				FIAT
3586-ACB	**VA0250513**	98468338				IVECO
3586-ACB	**VA0250513**	98468338				PEUGEOT
3586-ACB	**VA0250513**	98468338				RENAULT
3598-A	**VA0180124**	7701471378/ 7700107602	VX 3101 AA			RENAULT
3599-EB	**VE0180125**	7701473354/ 8200054762	VX 3102 AA			RENAULT
3600-AC	**VA0250160**	7735898				FIAT
3602-A	**VA0590067**	026109601D	VX 1947 AA	VS-2639		FORD
3602-A	**VA0590067**	026109601D	VX 1947 AA	VS-2639		VOLKSWAGEN
3614-AC	**VA0110232**	7W-8064		VS-3124		CATERPILLAR
3614-AC	**VA0110232**	7W-8064		VS-3124		GENERAL MOTORS
3616-A	**VA0440578**	0948A9				CITROËN
3616-A	**VA0440578**	0948A9				PEUGEOT
3617-ECBS	**VE0440598**	0949A8				CITROËN
3617-ECBS	**VE0440598**	0949A8				PEUGEOT
3620-A	**VA0180421**	7701469266				RENAULT
3621-EB	**VE0180422**	7701469269				RENAULT
3658-AN	**VA0480233**	6110530101				MERCEDES-BENZ
3659-EN	**VE0480251**	6110530005				MERCEDES-BENZ
3663-ECBS	**VA0760103**	1515743/ 1333230	VX 2750 AA			SCANIA
3663-ECBS	**VE0760102**	1328537	VX 2751 AA			SCANIA
3714-A	**VA0180395**					RENAULT
3715-EB	**VE0180396**	7700865449				RENAULT
3736-AC	**VA0250168**	60811153/ 7766564				ALFA ROMEO
3736-AC	**VA0250168**	60811153/ 7766564				FIAT
3779-EBN	**VE0630241**	13715-17010				TOYOTA
3798-A	**VA0441091**	094891				PEUGEOT
3800-AC	**VA0250162**	46553046	VX3128AA			FIAT
380-AC	**VA0250002**	43401180	VX 0514 AB	VS-992	50.017.170	FIAT
381-AC	**VA0440566**	7932582418				PEUGEOT
381-AC+0.4	**VA0440566+04**					PEUGEOT
381-AC+0.8	**VA0440566+08**					PEUGEOT
3827-EBN	**VE2110188**	OK63C-12-121				KIA MOTORS
3846-AC	**VA0480244**	9060500326	VX 3004 AB			MERCEDES-BENZ
3847-ECB	**VE0480245**	9060500327				MERCEDES-BENZ
3856-AC	**VA0480193**	5410500226		VS-5037		MERCEDES-BENZ
3857-ECB	**VE0480194**	5410500227	VX 2951 AB	VS-5225		MERCEDES-BENZ
3858-ACB	**VA0570231**	70910081				FORD
3858-ACB	**VA0570231**	70910081				PERKINS (MAXION)
3859-EBN	**VE0570232**	70910080				FORD
3859-EBN	**VE0570232**	70910080				PERKINS (MAXION)
3862-A	**VA0181606 (VA0180427)**	7701472986 / 13201-00Q0H				RENAULT
3863-EB	**VE0181607 (VE0180438)**	7701473004 / 13202-00Q0K				RENAULT
3864-A	**VA0180415**	7701471279				RENAULT
3870-A	**VA0700074**	036.109.601.AE	VX 3090 AA			VOLKSWAGEN
3871-EB	**VE0700073**	036.109.611.T	VX 3091 AA			VOLKSWAGEN
3874-EC	**VC0481344**	A9060160791				MERCEDES-BENZ
3875-EC	**VC0481345**	A5410160791				MERCEDES-BENZ
3884-A	**VA0440579**	0948.99 / 0948.F4				CITROËN
3884-A	**VA0440579**	0948.99 / 0948.F4				PEUGEOT
3885-ECB	**VE0441603 (VE0440599)**	0949.99 / 0949.E9				CITROËN
3885-ECB	**VE0441603 (VE0440599)**	0949.99 / 0949.E9				PEUGEOT
3892-AN	**VA0630259**	13711-58021				TOYOTA
3893-EPN	**VE0630260**	13715-58041				TOYOTA

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3B	MAHLE	ORIGINAL	TRW	EATON	KS	LINHA MOTORA
3956-AC	**VA0250271**	55195497	V76562A0			FIAT
3968-AC	**VA0381304**	1823875-C1				INTERNATIONAL
3972-A	**VA0700758**	030.109.601.G				SEAT
3972-A	**VA0700758**	030.109.601.G				VOLKSWAGEN
3973-EX	**VE0701141**	030.109.611.D				SEAT
3973-EX	**VE0701141**	030.109.611.D				VOLKSWAGEN
3976-AC	**VA0210442**	3940735				CUMMINS
3977-ECB	**VE0210443**	3940734				CUMMINS
3997-ECB	**VE0250272**	55195498	V76563A0			FIAT
4010-A	**VA0440575**	96101886/ 96183535				CITROËN
4010-A	**VA0440575**	96101886/ 96183535				PEUGEOT
4011-ECB	**VE0440596**	96101887				CITROËN
4011-ECB	**VE0440596**	96101887				PEUGEOT
4024-AC	**VA0211371**	3942588/ 3800340				CUMMINS
4025-ECB	**VE0211372**	3942589/ 3800341				CUMMINS
4035-EPN	**VE0440593**	97531046				CITROËN
4035-EPN	**VE0440593**	97531046				PEUGEOT
420-A	**VA0210147**	135957				CUMMINS
422-A	**VA0700050**	040.109.601.1	VX 0435 AF	VS-868	50.017.715	VOLKSWAGEN
422-AC	**VA0700061**	056.109.601.A	VX 0428 AF	VS-981		VOLKSWAGEN
452-A	**VA0700020**	040.109.601.2	VX 0434 AG	VS-869	50.017.716	VOLKSWAGEN
561-A	**VA0110235**	9L-7682				CATERPILLAR
565-AC	**VA0130011**	9.2260.460.0054	VX 0304 AA	VS-1134	50.017.717	FORD
565-AC	**VA0130011**	9.2260.460.0054	VX 0304 AA	VS-1134	50.017.717	MWM
582-AC	**VA0710121**	468302	VX 1594 AA	VS-4937	50.017.124	VOLVO
814-AC	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	50.017.797	FORD
814-AC	**VA0590044**	84AU-6507-B/ 0291096011	VX 1321 AA	VS-1492	50.017.797	VOLKSWAGEN
815-AC	**VA0700017**	035.109.601.C	VX 1368 AA	VS-1646	50.017.396	VOLKSWAGEN
843-AC	**VA0480080**	3450537001	VX 1565 AA	VS-1129	50.017.757	MERCEDES-BENZ
843-AC+0.4	**VA0480080+04**					MERCEDES-BENZ
843-AC+0.8	**VA0480080+08**					MERCEDES-BENZ
856-AC	**VA0250054**	7617500	VX 2399 AA	VS-2692	50.017.720	FIAT
860-AC	**VA0710063**	469240/ 4675002/ 8194223	VX 0588 AB	VS-4934	50.017.126	VOLVO

Guias de Válvulas

As guias de válvulas MAHLE Original e Metal Leve são projetadas e fabricadas em diferentes formas, utilizando-se materiais e tecnologias de ponta, de modo a proporcionar o máximo de desempenho e durabilidade. As peças são fabricadas em ferro fundido ligado, podendo receber tratamento superficial, por exemplo, de fosfatização.

Materiais otimizados para aplicações específicas podem ser selecionados, levando-se em consideração os aspectos de usinabilidade e compatibilidade tribológicas das superfícies de contato.

As guias de válvulas de bronze atendem tanto o mercado de reposição quanto o de motores de competição por possuírem uma condutividade de calor diferenciada e pela sua resistência ao desgaste por atrito, especialmente para motores a GNC/GLP, nos quais as condições de lubrificação são reduzidas e as cargas térmicas, maiores.

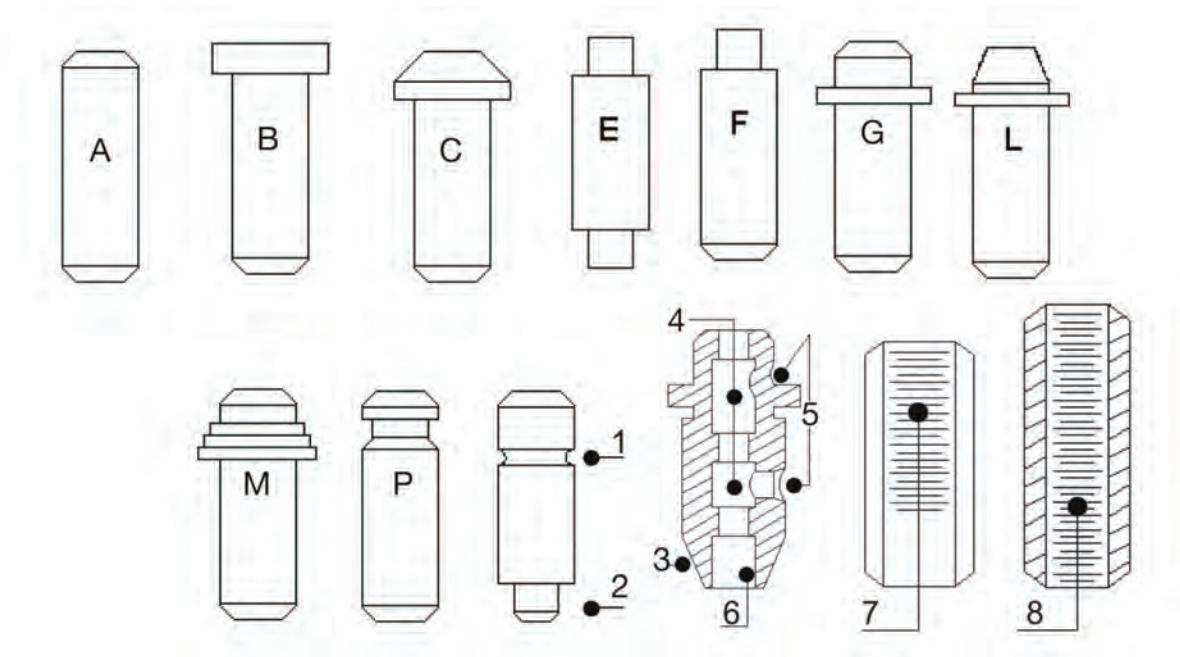
Tipos e termos técnicos

GA -Guias de Válvulas de Admissão
GE -Guias de Válvulas de Escape
GC -Guias de Válvulas Comum (Admissão e Escape)

Para facilitar a identificação em caso de dúvidas, foram esquematizados e indicados por letras (A, B, C, etc.).

As características particulares são assinaladas com números de 1 a 8.

1) Ranhura externa para o assento do anel de fixação.
2) Rebaixo.
3) Extremidade cônica.
4) Câmara interna.
5) Furo para lubrificação.
6) Câmara Interna na extremidade da guia.
7) Canal para lubrificação.
8) Canal para lubrificação.

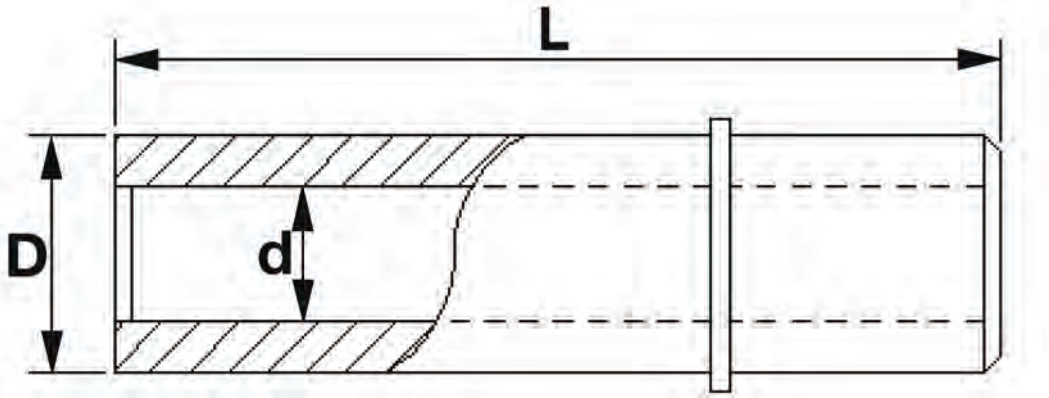


Função

- Suportar os esforços de fricção lateral que geram o movimento alternativo das válvulas.
- Dissipar o calor das hastes das válvulas.
- Manter o alinhamento correto do conjunto (válvula, assento e guia) para selar corretamente a câmara de combustão.

Características indicadas na coluna de medidas:

D) diâmetro externo;
d) diâmetro interno;
L) comprimento.



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Estrutura da página e decodificação dos códigos das peças

1 MERCEDES-BENZ

MAHLE

	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	D x d x L 7	MATERIAL 8	FORMA 9
2 Mot. OM 447 LA/449 LA	5/6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor Maxion Sprinter 2.5l.	4	IN - EX	**GC0570056**	STD	14,05 x 8,01 x 49,00	FG	F
				0,1	14,15 x 8,01 x 49,00		
Motor OM 321 L1112-LS1112-LO1112	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314 Con Cámara Interior	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314-1114 (mod.'84 en ad.)	6	EX	**GE0480026**	STD	15,04 x 10,00 x 67,00	FG	A
Motor OM 352, OM 352A, OM 314A/ Turbo L508D-L608D-L1113-L1114-L1413-LK1517	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
		EX	**GE0480031**	STD	15,03 x 10,00 x 73,00	FG	A
Motor OM 355 L1521-L1526, OM 346, OM 355 Turbo	5/6	IN	**GA0480013**	STD	15,04 x 9,01 x 67,50	FG	A-1
		EX	**GE0480014**	STD	15,04 x 9,01 x 86,50	FG	A-1
Motor OM 366, OM 366 Turbo	6	IN	**GA0480033**	STD	15,04 x 9,00 x 72,00	FG	A-1
				0,05	15,09 x 9,00 x 72,00	FG	A-2
		EX	**GE0480035**	STD	15,04 x 10,00 x 67,00	FG	A-1
				0,05	15,09 x 10,00 x 67,00		
Motor OM 447, OM 449 1633	6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor OM 457 LA	6	IN - EX	**GC0480053**	STD	15,04 x 9,00 x 61,10	FG	F-1
Motor OM 904LA 12v., OM 906LA 712, 1721 18v.	4/6	IN - EX	**GC0480068**	STD	14,04 x 8,00 x 60,00	FG	P
Motores OM 352 e 321	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motores OM 352A c/ quebra carvão- Mercedes Benz	6	EX	**GE0480044**	STD	15,04 x 10,01 x 67,00	-	A-6
Motores OM 366, OM 352A- Mecedes Benz	6	IN	**GA0480001**	STD	15,03 x 9,01 x 72,00	-	A-1
		EX	**GE0480002**	STD	15,03 x 10,01 x 67,00	-	

1. Fabricante
2. Nome do motor
   Dados do motor
   Veículos
   Ano de fabricação
3. Número do cilindro
4. Função
   IN = Admissão
   EX = Escape
   IN - EX = Comum
5. Número de artigo da sede de válvula
   Ex.: GA 048 0002
   - Número sequencial
   - Linha motora
   - GA - Guia de válvula de admissão
   - GE - Guia de válvula de escape
   - GC - Guias de válvulas comum (admissão e escape)
6. Medidas
7. Dimensões
8. Material
9. Forma

Valve Guides

MAHLE Original and Metal Leve valve guides are designed and manufactured in different shapes, using state-of-the-art materials and technologies to provide maximum performance and durability. Parts are manufactured cast iron alloy and could receive surface treatment, like phosphatization.

Materials are optimized for specific applications and are selected according to machinability and compatibility aspects, contact surface tribology.

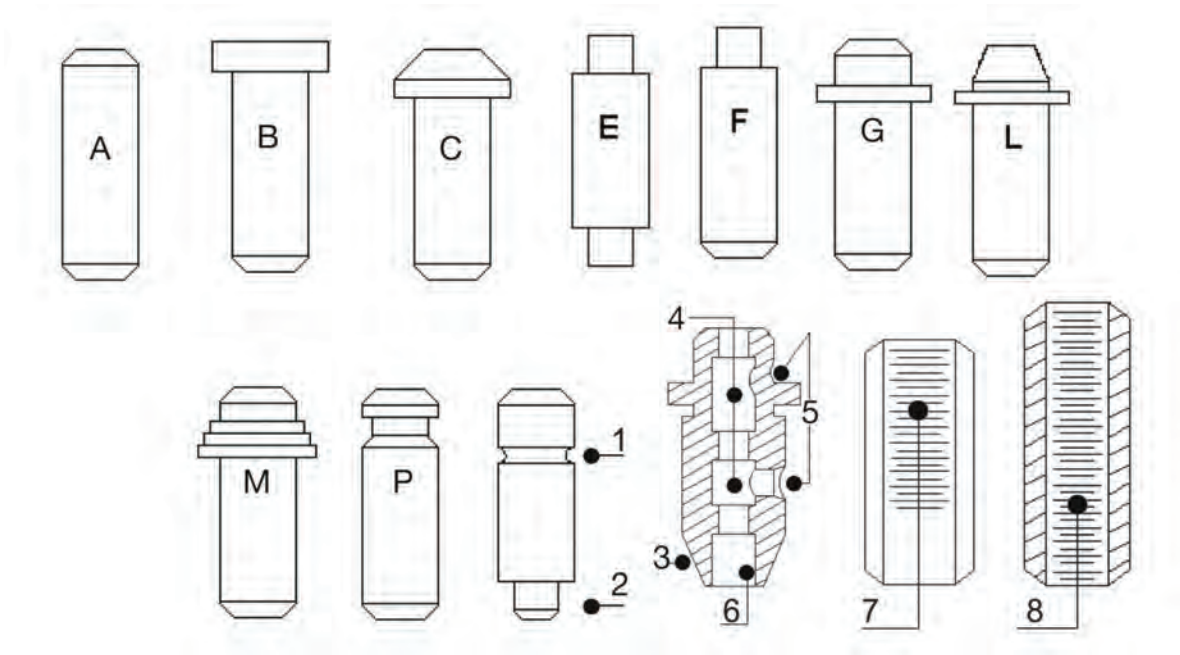
Bronze valve guides meet the needs of both the replacement market and racing engines, as they have different thermal heat conductivity and because they can withstand the friction wear, especially for GNC/GLP engines, where lubricating conditions are reduced and thermal loads are higher.

Types and technical words

GA - Intake Valves Guides
GE - Exhaust Valves Guides
GC - Common valve guide (Intake and Exhaust) To help identification if there are any doubts, they have been outlined and indicated by alphabet letters (A, B, C, etc.).

Specific characteristics are highlighted with numbers 1 to 8.

1) External soit for the site of fixed ring.
2) Rebate.
3) Conical extremity.
4) Internal camera.
5) Lubricant hole.
6) Internal camera at the guide extreme.
7) Lubricating fillet.
8) Lubricating fillet.

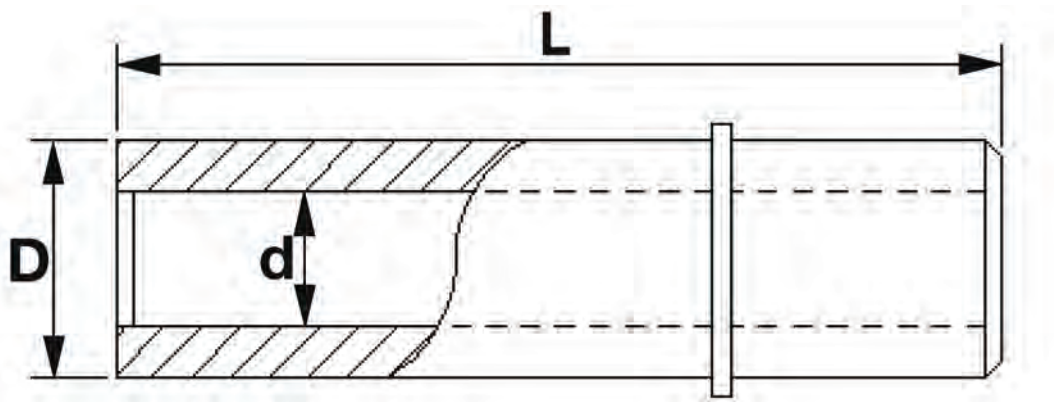


Purpose

- Support lateral friction forces that generate alternative movements of the valves.
- Dissipate heat from valve shafts.
- Keep the appropriate alignment of the assembly (valve, seat and guide) to appropriately seal the combustion chamber.

Characteristics described in the dimensions column

D) Outside Diameter
d) Inside Diameter
L) Length



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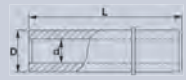
Page structure and part code decoding

1 MERCEDES-BENZ

MAHLE

	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	 D x d x L 7	MATERIAL 8	FORMA 9
2 Mot. OM 447 LA/449 LA	5/6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor Maxion Sprinter 2.5l.	4	IN - EX	**GC0570056**	STD	14,05 x 8,01 x 49,00	FG	F
				0,1	14,15 x 8,01 x 49,00		
Motor OM 321 L1112-LS1112-LO1112	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314 Con Cámara Interior	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314-1114 (mod.'84 en ad.)	6	EX	**GE0480026**	STD	15,04 x 10,00 x 67,00	FG	A
Motor OM 352, OM 352A, OM 314A/ Turbo L508D-L608D-L1113-L1114-L1413-LK1517	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
		EX	**GE0480031**	STD	15,03 x 10,00 x 73,00	FG	A
Motor OM 355 L1521-L1526, OM 346, OM 355 Turbo	5/6	IN	**GA0480013**	STD	15,04 x 9,01 x 67,50	FG	A-1
		EX	**GE0480014**	STD	15,04 x 9,01 x 86,50	FG	A-1
Motor OM 366, OM 366 Turbo	6	IN	**GA0480033**	STD	15,04 x 9,00 x 72,00	FG	A-1
				0,05	15,09 x 9,00 x 72,00	FG	A-2
		EX	**GE0480035**	STD	15,04 x 10,00 x 67,00	FG	A-1
				0,05	15,09 x 10,00 x 67,00		
Motor OM 447, OM 449 1633	6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor OM 457 LA	6	IN - EX	**GC0480053**	STD	15,04 x 9,00 x 61,10	FG	F-1
Motor OM 904LA 12v., OM 906LA 712, 1721 18v.	4/6	IN - EX	**GC0480068**	STD	14,04 x 8,00 x 60,00	FG	P
Motores OM 352 e 321	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motores OM 352A c/ quebra carvão- Mercedes Benz	6	EX	**GE0480044**	STD	15,04 x 10,01 x 67,00	-	A-6
Motores OM 366, OM 352A- Mecedes Benz	6	IN	**GA0480001**	STD	15,03 x 9,01 x 72,00	-	A-1
		EX	**GE0480002**	STD	15,03 x 10,01 x 67,00	-	

1 Manufacturer
2 Engine Name
Engine Data
Vehicles
Manufacturing Year
3 Cylinder number
4 Function
IN = Intake
EX = Exhaust
IN - EX = Common

5 Valve Seat Product Number
Ex.: GA 048 0002
- Sequence Number
- Engine Line
- GA - Intake valve guide
- GE - Exhaust valve guide
- GC - Common valve guide (Intake and Exhaust)

6 Size
7 Dimensions
8 Material
9 Shape

Guías de Válvulas

Las guías de válvulas MAHLE Original y Metal Leve son proyectadas y fabricadas en formas distintas, utilizando materiales y tecnologías de punta, para garantizar el máximo desempeño y durabilidad.
Las piezas son fabricadas en hierro fundido con aleaciones, pudiendo recibir tratamiento superficial, por ejemplo de fosfatización.

Materiales optimizados para aplicaciones específicas pueden ser seleccionados, considerando los aspectos de torneabilidad y compatibilidad tribologica de las superficies de contacto.

Las guías de válvulas de bronce atienden tanto el mercado de reposición cuanto los motores de competición, porque poseen una conductividad de calor diferenciada y por su resistencia al desgaste por fricción, especialmente para motores que usan GNC/GLP como combustible, donde las condiciones de lubricación son reducidas y las cargas térmicas mayores.

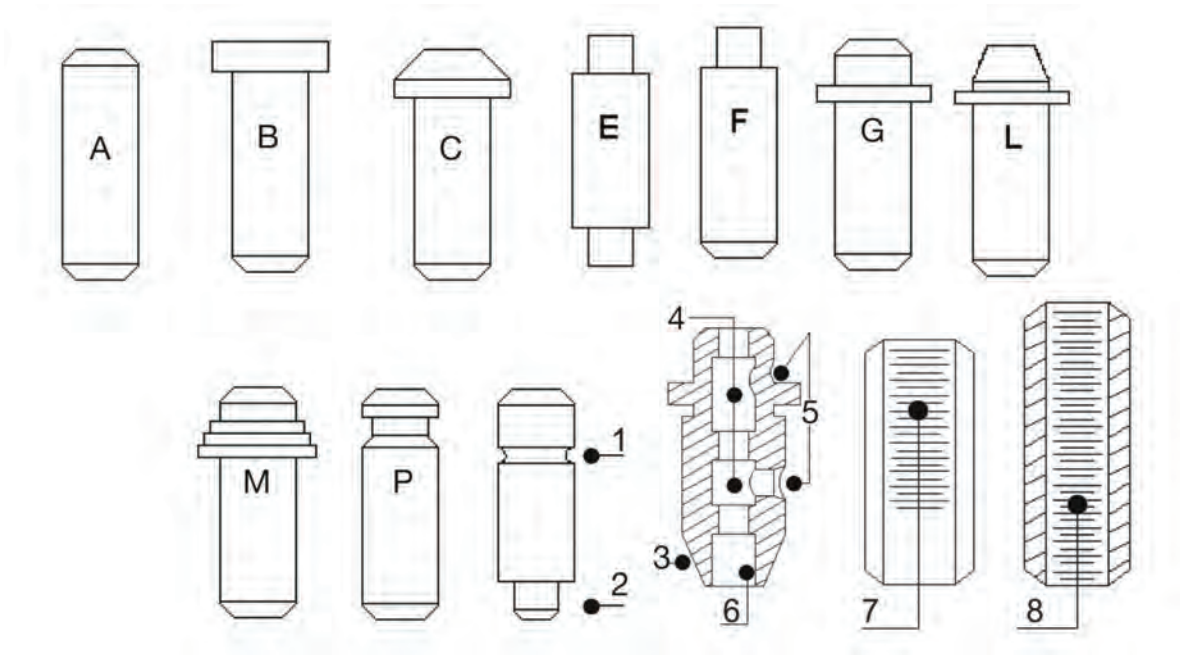
Tipos y conceptos técnicos

GA - Guías de Válvulas de Admisión
GE - Guías de Válvulas de Escape
GC - Guías de Válvulas Común (Admisión y Escape)

Para facilitar la identificación en los casos de dudas, hemos pensado en esquematizar la forma de la guía, dando por símbolo una letra (A, B, C, etc.).

Lo procedente es orientativo a la forma de la guía. Las características particulares son señaladas con cifras que van de 1 al 8.

1) Ranura exterior para el asiento del anillo de fijación.
2) Rebaje.
3) Extremidad Cónica.
4) Cámara Interna.
5) Agujero para Lubricación.
6) Cámara Interna en el extremo de la Guía.
7) Filete para Lubricación.
8) Filete para Lubricación.

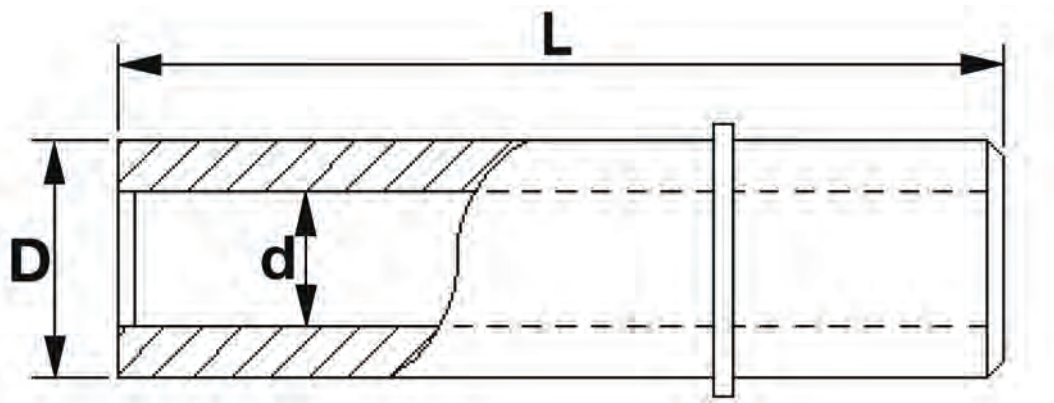


Función

- Soportar los esfuerzos de fricción lateral generados en el movimiento alternativo de as válvulas.
- Disipar el calor de los vástagos de las válvulas.
- Mantener el alineamiento correcto del conjunto (válvula, asiento y guía) para hermetizar correctamente la cámara de combustión.

Características indicadas en la columna de medidas

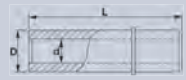
D) Diámetro exterior
d) Diámetro interior
L) Largo total



Configuración de las páginas y códigos de artículos

1 MERCEDES-BENZ

MAHLE

	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	 D x d x L 7	MATERIAL 8	FORMA 9
2 Mot. OM 447 LA/449 LA	5/6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor Maxion Sprinter 2.5I.	4	IN - EX	**GC0570056**	STD	14,05 x 8,01 x 49,00	FG	F
				0,1	14,15 x 8,01 x 49,00		
Motor OM 321 L1112-LS1112-LO1112	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314 Con Cámara Interior	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motor OM 352, OM 352A, OM 314-1114 (mod.'84 en ad.)	6	EX	**GE0480026**	STD	15,04 x 10,00 x 67,00	FG	A
Motor OM 352, OM 352A, OM 314A/ Turbo L508D-L608D-L1113-L1114-L1413-LK1517	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
		EX	**GE0480031**	STD	15,03 x 10,00 x 73,00	FG	A
Motor OM 355 L1521-L1526, OM 346, OM 355 Turbo	5/6	IN	**GA0480013**	STD	15,04 x 9,01 x 67,50	FG	A-1
		EX	**GE0480014**	STD	15,04 x 9,01 x 86,50	FG	A-1
Motor OM 366, OM 366 Turbo	6	IN	**GA0480033**	STD	15,04 x 9,00 x 72,00	FG	A-1
				0,05	15,09 x 9,00 x 72,00	FG	A-2
		EX	**GE0480035**	STD	15,04 x 10,00 x 67,00	FG	A-1
				0,05	15,09 x 10,00 x 67,00		
Motor OM 447, OM 449 1633	6	IN - EX	**GC0480030**	STD	18,04 x 12,00 x 67,00	FG	A-2
Motor OM 457 LA	6	IN - EX	**GC0480053**	STD	15,04 x 9,00 x 61,10	FG	F-1
Motor OM 904LA 12v., OM 906LA 712, 1721 18v.	4/6	IN - EX	**GC0480068**	STD	14,04 x 8,00 x 60,00	FG	P
Motores OM 352 e 321	6	IN	**GA0480007**	STD	15,04 x 9,00 x 78,00	FG	A-3
Motores OM 352A c/ quebra carvão-Mercedes Benz	6	EX	**GE0480044**	STD	15,04 x 10,01 x 67,00	-	A-6
Motores OM 366, OM 352A- Mecedes Benz	6	IN	**GA0480001**	STD	15,03 x 9,01 x 72,00	-	A-1
		EX	**GE0480002**	STD	15,03 x 10,01 x 67,00	-	

1 Fabricante
2 Descripción del motor
Datos del Motor
Vehículos
Año de Fabricación
3 Número de cilindros
4 Función
IN = Admisión
EX = Escape
IN - EX = Común

5 Número de Artículo de la Guía de Válvula
Ex.: GA 048 0002
- Número Secuencial
- Línea Motora
- GA - Guía de válvula de admisión
- GE - Guía de válvula de escape
- GC - Guías de válvulas común (admisión y escape)

6 Medidas
7 Dimensiones
8 Material
9 Forma

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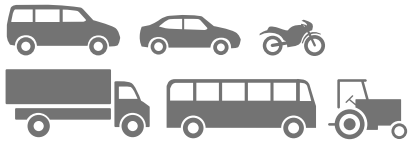
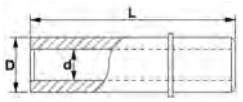
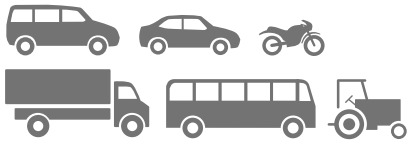
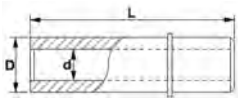
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
M-80/M-85/M-90 Mod. Lisa	-	IN - EX	**GC0060431**	STD 1	12.05 x 8.01 x 60.00	B	A

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Topic 2.4/2.7L Diesel	4	IN - EX	**GC0720045**	STD	12.75 x 8.01 x 54.00	FG	P
Towner - Motor 800cc	3	IN - EX	**GC0720046**	STD	12.05 x 7.01 x 50.00	FG	A

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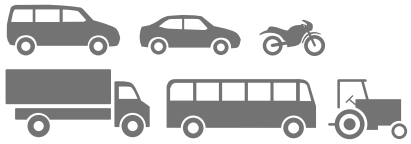
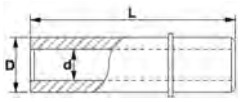
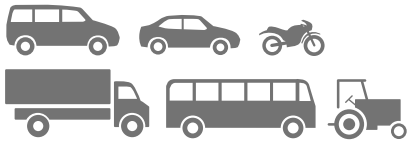
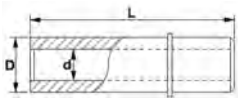
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Modelo 977, 966 D4D e D5 - D330C, D333C, 3304/3306, 1673 12V, 1673C	4/6	IN - EX	**GC0110011**	STD	16.70 x 9.47 x 71.45	FG	A-8

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Série B Asp./Turbo - (Parede Fina) - Ford F250 - F350 - F4000 / VW 12170 - 13170 - 15170	4/6	IN - EX	**GC0210054**	STD	11.16 x 8.03 x 61.00	FG	A-7
Série C/CTA/CTAA - VW 14220 - 17220 - 24220 - 26300 - 17300 - 40300 - 25250 / Ford 2630 - 4030 - 2425 -1622 -2422	6	IN - EX	**GC0210023**	STD	16.00 x 9.55 x 72.00	FG	A-11
Série ISC 8.3L 24V Eletrônico	6	IN - EX	**GC0210432**	STD	14.00 x 8.02 x 49.50	FG	A

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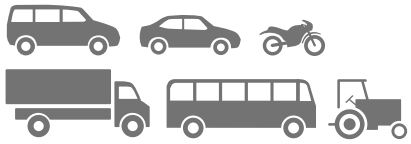
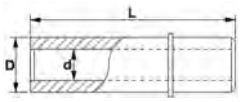
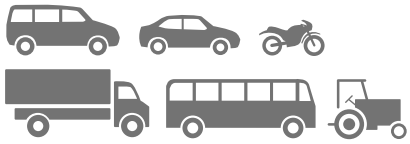
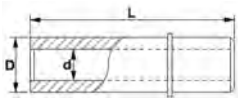


Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Ducato 2.5L / 2.8L	4	IN - EX	**GC0010069**	STD	13.04 x 7.99 x 56.00	FG	F
				0,05	13.09 x 7.99 x 56.00	FG	F
				0,10	13.14 x 7.99 x 56.00	FG	F
				0,20	13.24 x 7.99 x 56.00	FG	F
Fire 1.0/1.3L 8v Gas. e Flex	4	IN - EX	**GC0250096**	STD	13.02 x 7.03 x 40.20	FG	F
Fire 1.0/1.3L 16v	4	IN - EX	**GC0250097**	STD	10.02 x 6.03 x 39.80	FG	F-1
Fire 1.4 8V	4	IN - EX	**GC0250433**	STD	10.04 x 5.00 x 44.00	FG	F-1
Marea 1.6L 16V	4	EX	**GE0250059**	STD	13.04 x 7.00 x 45.80	FG	F-1
Motor 1.0/1.3/1.5L 8v Nacional	4	IN - EX	**GC0250019**	STD	15.06 x 8.02 x 46.50	FG	F-1
Motor 1.0/1.3L 8v Nacional - Especial em Bronze	4	IN - EX	**GC0250091**	STD	15.06 x 8.02 x 46.50	B	F
Motor 1.5/1.6L 8v Sevel Argentino	4	IN - EX	**GC0250028**	STD	14.05 x 8.02 x 46.70	FG	F-1-3
Palio 1.6L 16v - Marea (Admissão) / Brava	4	IN - EX	**GC0250055**	STD	13.02 x 7.02 x 42.00	FG	F-1
Palio 1.6L 16v - Especial em Bronze	4	IN - EX	**GC0250100**	STD	13.02 x 7.03 x 42.00	B	N
Tempra 16V	4	IN - EX	**GC0250039**	STD	14.04 x 7.00 x 51.00	FG	F-3
Tempra 8V	4	IN - EX	**GC0250040**	STD	14.08 x 7.99 x 42.00	FG	F

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Corcel 1.4/1.6L (1969->)	4	IN - EX	**GC0590010**	STD	11.15 x 6.97 x 41.50	FG	A-3
Corcel, Escort, Del Rey - Motor CHT	4	IN - EX	**GC0590020**	STD	11.12 x 7.00 x 49.00	FG	F
Ford Cargo (adaptação) - Tractor Ford Motor 4600/6600	4/6	IN - EX	**GC0260032**	STD	16.05 x 9.47 x 72.00	FG	A
Motor Rocam 1.0/1.6L Gas. e Flex - Fiesta, Ká, Escort, Focus	4	IN - EX	**GC0590066**	STD	11.04 x 6.00 x 42.00	FG	A-3-3
Motor Zetec 16V - Focus 2.0L, Escort 1.8L, Fiesta/Courier 1.4L	4	IN - EX	**GC0590060**	STD	12.01 x 6.00 x 36.00	FG	A-3-3
Motor 3.0L 16v NGD - Ranger Eletrônica	4	IN - EX	**GC0590435**	STD	12.05 x 6.00 x 43.00	FG	A

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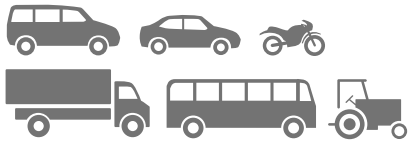
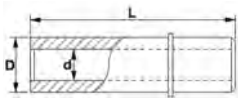
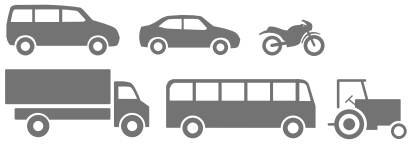
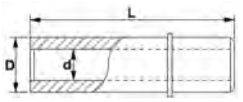
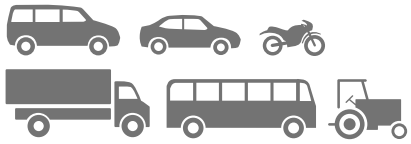
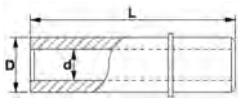
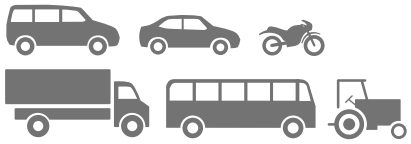
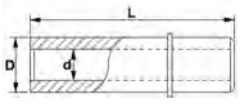
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Jeep Willys 6cil. - Mot 2.6L / 3.0L	6	IN	**GA0230434**	STD	16.71 x 9.54 x 61.00	FG	F
Jeep Willys	6	EX	**GE0230006**	STD	16.71 x 8.71 x 63.50	FG	F-6
Modelo B9, B9C, NB10, NB10C, NT 85	1	IN - EX	**GC2310012**	STD	14.03 x 9.01 x 56.90	FG	G-6
NSB 90, NSB 11	1	IN - EX	**GC2310021**	STD	13.04 x 8.01 x 47.50	FG	G-6



Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Corsa 1.0/1.6 16V, Astra 2.0 16V, Vectra 2.0/2.2/ 2.4 16V, Meriva 1.8 8V e 16V	4	IN	**GA0140047**	STD	10.04 x 6.00 x 45.00	FG	F
				0,10	10.14 x 6.00 x 45.00	FG	F
D20 Turbo Motor Maxion	4	IN - EX	**GC0570043**	STD	15.91 x 9.54 x 55.00	FG	F
Monza - Kadett 1.6/1.8L	4	IN - EX	**GC0140027**	STD	12.03 x 7.99 x 43.00	FG	A-1
Monza,Kadett 2.0L - Corsa 1.0/1.4/1.6L 8v - Vectra, S10 2.0/2.2/2.4L 8v	4	IN - EX	**GC0140029**	STD	11.03 x 7.02 x 46.00	FG	A-1
				0,05	11.08 x 7.02 x 46.00	FG	A-1
Monza/Kadett 2.0L - Corsa 1.0/1.4/1.6L 8v - Vectra, S10 2.0/2.2/2.4L 8v - Especial em Bronze	4	IN - EX	**GC0140092**	STD 1	11.03 x 7.02 x 46.00	B	A-1
Todos - C 10 - 261	6	IN	**GA0140003**	STD	14.34 x 8.70 x 85.00	FG	A-2
		EX	**GE0140004**	STD	14.34 x 8.70 x 85.00	FG	A

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
CG 125, ML 125, Cargo, Today, Turuna (->91)	1	EX	**GE0510022**	STD	11.10 x 5.47 x 42.00	FG	M
CG 150 Titan (KS-ES-ESD), NXR150 Bros (KS-ES-ED)	1	IN - EX	**GC0510099**	STD	10.09 x 5.00 x 39.40	FG	M
Civic Motor D16B6 1.6 16V	4	IN	**GA0510436**	STD	11.07 x 5.54 x 47.50	FG	A-1-1-2
Civic Motor D16A/Z 1.6 16V	4	EX	**GE0510437**	STD	11.07 x 5.54 x 54.10	FG	A-1-1-2
Motor 125cc (2002->)	1	EX	**GE0510098**	STD	10.09 x 5.02 x 46.50	FG	G
Titan CDI (91->), XLR 125	1	IN - EX	**GC0510058**	STD	11.10 x 5.48 x 46.50	FG	M

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
H100 2.4L	4	IN - EX	**GC2080050**	STD	13.07 x 8.00 x 74.00	FG	A-1

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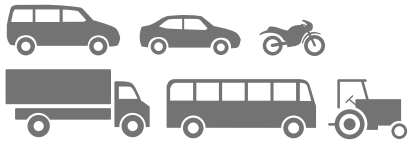
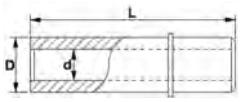
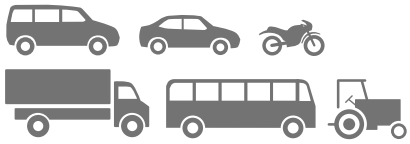
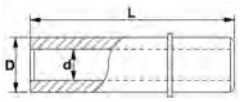
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Iveco Daily 2.5L / 2.8L	4	IN - EX	**GC0010069**	STD	13.04 x 7.99 x 56.00	FG	F
				0,05	13.09 x 7.99 x 56.00	FG	F
				0,10	13.14 x 7.99 x 56.00	FG	F
				0,20	13.24 x 7.99 x 56.00	FG	F

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor 2.2L - Besta / Motor 2.0L Turbo - Sportage	4	IN	**GA2110438**	STD	14.05 x 8.00 x 41.00	FG	A-1
Motor 2.7L - Besta	4	IN - EX	**GC2110052**	STD	14.05 x 9.01 x 47.50	FG	P
Motor 3.0L - Besta GS	6	IN - EX	**GC2110065**	STD	14.04 x 8.50 x 49.00	FG	A

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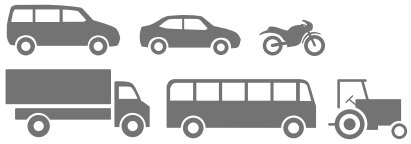
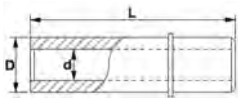
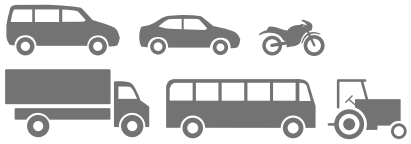
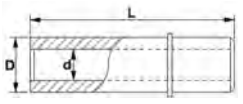
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor Maxion - Sprinter 2.5L	4	IN - EX	**GC0570056**	STD	14.05 x 8.01 x 49.00	FG	F
				0,10	14.15 x 8.01 x 49.00		
Motor OM352, OM352A, OM321, OM314 (Com Câmara Interna)	6	IN	**GA0480007**	STD	15.04 x 8.98 x 78.00	FG	A-3
Motor OM352 Turbinado	6	EX	**GE0480026**	STD	15.04 x 10.00 x 67.00	FG	A
Motor OM352, OM352A, OM314A Turbo L508D-L608D-L1113-L1114-L1413-LK1517	6	IN	**GA0480007**	STD	15.04 x 9.00 x 78.00	FG	A-3
		EX	**GE0480031**	STD	15.03 x 10.00 x 73.00	FG	A
Motor OM352A (Com Quebra Carvão)	6	EX	**GE0480044**	STD	15.04 x 10.01 x 67.00	FG	A-6
Motor OM355 L1521-L1526, OM355 Turbo, OM346	5/6	IN	**GA0480013**	STD	15.04 x 9.01 x 67.50	FG	A-1
		EX	**GE0480014**	STD	15.04 x 9.01 x 86.50		
Motor OM366, OM366 Turbo, OM352A	6	IN	**GA0480033**	STD	15.04 x 9.00 x 72.00	FG	A-1
				0,05	15.09 x 9.00 x 72.00	FG	A-2
		EX	**GE0480035**	STD	15.04 x 10.00 x 67.00	FG	A-1
				0,05	15.09 x 10.00 x 67.00		
Motor OM366, OM352A	6	IN	**GA0480001**	STD	15.04 x 9.01 x 68.00	FG	A-1
		EX	**GE0480002**	STD	15.04 x 10.01 x 63.00		
Motor OM447/449, OM447/449LA	5/6	IN - EX	**GC0480030**	STD	18.04 x 12.00 x 67.00	FG	A-2
Motor OM457LA	6	IN - EX	**GC0480053**	STD	15.04 x 9.00 x 61.10	FG	F-1
Motor OM611LA - Sprinter 311 / Motor OM612LA - Accelo	4/5	IN - EX	**GC0480439**	STD	12.56 x 7.01 x 37.50	FG	N
Motor OM904A Eletrônico, OM904LA 12v., OM906LA 712, 1721 18v., OM924LA, OM926LA	4/6	IN - EX	**GC0480068**	STD	14.04 x 8.00 x 60.00	FG	P

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor 2.8L - L200 / Pajero	4	EX	**GE1950440**	STD	13.07 x 8.00 x 51.00	FG	A-3-6

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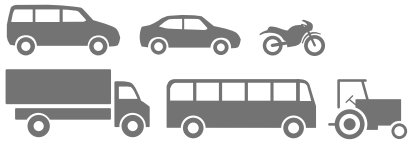
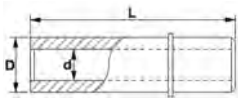
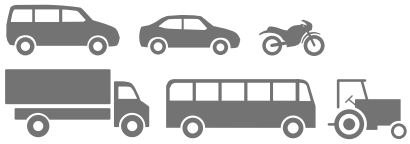
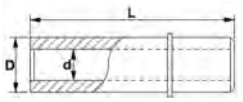
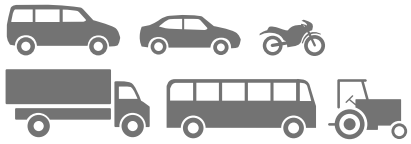
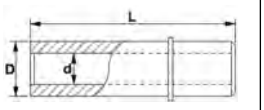
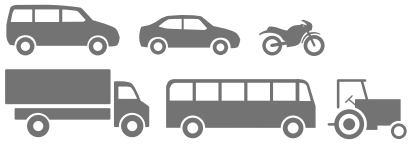
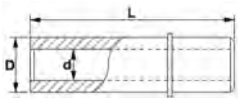
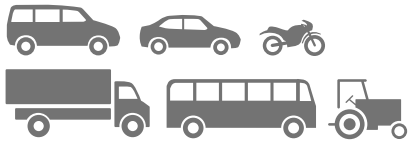
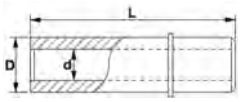
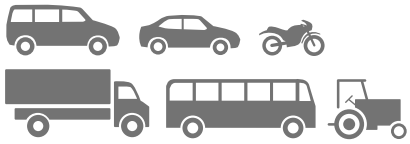
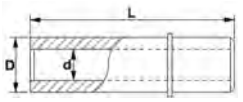
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor 4.10/4.10T/ 6.10/ 6.10T/ 6.10TCA - VW 14150 Euro I - Grupo Gerador 50 Hz - VW 16210 CO - Ford Cargo - Grupos Geradores 60/80 Hz - VW ônibus / 15180 / 13180 - VW 17180 / 17210 / 17240 / 17290 - Ônibus 180A e 210 LA, F1000 Ano 98	4/6	IN - EX	**GC0130042**	STD	15.04 x 9.00 x 49.00	FG	N
Motor Sprint 4.07 / 4.07 TCE / 6.07 / 6.07 T / 6.07 TCE (GM Silverado,S10 - Ford F250 - Caminhões 3500HD - VW LT2 - Agrale Volare - Jipe Troller)	4/6	IN - EX	**GC0130063**	STD	12.03 x 7.01 x 40.55	FG	N
Motor D225, D226, D229 - Agrale 7500D / Fiat Tractor-Esteira FD6 - Pá carregadeira / Tractor Valmet	3/4/6	IN - EX	**GC0130008**	STD	15.04 x 9.01 x 58.00	FG	G
Motor D225, D226 para uso com retentor	3/4/6	IN - EX	**GC0130041**	STD	15.03 x 9.01 x 53.50	FG	N
Motor D225, D226 sem anel	3/4/6	IN - EX	**GC0130037**	STD	15.03 x 9.01 x 58.00	FG	A-1
KD-112/D-222 - Tratores Fendt e Valmet Brasileiro	-	IN - EX	**GC0130441**	STD	16.05 x 10.02 x 64.00	FG	C

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Adaptação D 10	6	IN - EX	**GC0570016**	STD	15.91 x 9.54 x 52.70	FG	F
Motor 3152, D 3152, 4203, D 4203	3/4	IN - EX	**GC0570005**	STD	12.74 x 7.98 x 61.90	FG	A-6
Motor 6357 Veicular e Industrial	6	IN - EX	**GC0570009**	STD	15.93 x 9.51 x 68.00	FG	L
Motor Maxion HS 2.5/2.8 - Ford Ranger, Land Rover Defender OM 014A Sprinter, S10, F1000 HS / HSD	4	IN - EX	**GC0570056**	STD	14.05 x 8.00 x 49.00	FG	F
Motor Maxion S4 - Série 4000/4001 - ST 7 (GM) / S4T / P4000 / P4000T	4	IN - EX	**GC0570043**	STD	15.91 x 9.54 x 55.00	FG	F
Motor Maxion - MBB Sprinter 2.5L / HS 2.8L	4	IN - EX	**GC0570056**	STD	14.05 x 8.01 x 49.00	FG	F
				0,10	14.15 x 8.01 x 49.00		
Motor 6358	6	IN - EX	**GC0570015**	STD	15.93 x 9.50 x 66.00	FG	F
Motor 4236 - Q20B4 - 4248 - 6354 - (D20 - AGCO - Estacionários) Asp. / Turbo	4/6	IN	**GA0570017**	STD	15.93 x 9.50 x 58.00	FG	F
			GE0570018	STD	15.93 x 9.51 x 61.10	FG	F-6

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor GXE 2000/2200 - Trafic	4	IN - EX	**GC0180062**	STD	13.06 x 8.00 x 50.00	FG	F
Motor K4M 1.6L 16V - Megane / Motor F4R 2.0L 16V - Scenic / Motor D4D 1.0L 16V - Clio	4	IN - EX	**GC0180442**	STD 1	11.07 x 5.50 x 40.50	B	A

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor D11, DC11, D12, DN12, DS12, DSC12 Modelo 104-124	6	IN - EX	**GC0760064**	STD	16.01 x 10.01 x 73.00	FG	F-8
Motor DN11, DS11, DSC11, L110-L111-L113-113H Ecológico	6	EX	**GE0760051**	STD	18.02 x 11.00 x 68.00	FG	F-8
Motor (Antigo sem retentor) D10, DS11 Turbo, DS10 Turbo, DN11 Turbo, DS14 Turbo L111/T112/K112	6	IN	**GA0760048**	STD	18.02 x 11.00 x 80.00	FG	A-8
		EX	**GE0760049**	STD	18.02 x 11.00 x 73.00	FG	A-8

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Corolla / Celica / Carina - Motores 4A-FE 1.6L 16V e 7A-FE 1.8L 16V	4	IN - EX	**GC0630443**	STD	11.26 x 6.02 x 38.40	FG	P
Corolla / Avensis / MR-2 / RAV4 - Motores 1ZZ-FE 1.8L 16V, 3ZZ FE 1.6L 16V e 4ZZ FE 1.4L 16V	4	IN - EX	**GC0630444**	STD	10.34 x 5.52 x 34.50	FG	P
Motor 14B - Bandeirante	4	IN - EX	**GC0630446**	STD	14.06 x 9.01 x 60.00	FG	P
			GC0630446	0,05	14.11 x 9.01 x 60.00	FG	P
Motor 2.4/2.8L - Hilux	4	IN - EX	**GC0630061**	STD	13.07 x 8.01 x 40.00	FG	P
Motor 3.0L - Hilux (1998->)	4	IN - EX	**GC0630445**	STD	13.05 x 8.02 x 42.00	FG	P-1

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
1300, 1500, 1600 (STD 1 Padrão Montadora) - (01/01/1967 a 30/10/1986)	4	IN	**GA0700070**	STD 1	12.07 x 8.00 x 64.00	B	A
				STD 2	12.09 x 8.00 x 64.00		
				0,05	12.12 x 8.00 x 64.00		
				0,10	12.17 x 8.00 x 64.00		
				0,20	12.27 x 8.00 x 64.00		
1300, 1500 (STD 1 Padrão Montadora)	4	EX	**GE0700075**	STD 1	12.07 x 8.00 x 64.00	B	A-6
				STD 2	12.09 x 8.00 x 64.00		
				0,05	12.12 x 8.00 x 64.00		
				0,10	12.17 x 8.00 x 64.00		
				0,20	12.27 x 8.00 x 64.00		
Gol 1000 Mi 8v	4	IN - EX	**GC0700090**	STD	11.08 x 7.00 x 33.00	B	N
Gol 1000 Mi 16v	4	IN - EX	**GC0700093**	STD 1	11.06 x 6.01 x 36.00	B	N
				STD 2	11.09 x 6.01 x 36.00		
Gol BX, Saveiro BX, Kombi 1600 - (Válvula de 9mm STD1 Padrão Montadora) - (01/01/1967 a 30/10/1986)	4	EX	**GE0700088**	STD 1	13.07 x 8.98 x 64.00	B	A-6
				STD 2	13.09 x 8.98 x 64.00		
				0,10	13.17 x 8.98 x 64.00		
				0,20	13.27 x 8.98 x 64.00		
Golf 1.6/2.0L	4	IN - EX	**GC0700095**	STD	12.06 x 7.00 x 36.60	B	N
Motor 1.0L 8v CHT - Gol (1995->1997)	4	IN - EX	**GC0700038**	STD	11.12 x 7.00 x 43.00	FG	F-1
Passat 1.6L, Santana 1.8/2.0L Carburado, Kombi Diesel e Gasolina (Biela Longa)	4	IN - EX	**GC0700084**	STD 1	12.06 x 8.00 x 42.50	B	F-1
				STD 2	12.09 x 8.00 x 42.50		
				0,05	12.11 x 8.00 x 42.50		
				0,10	12.16 x 8.00 x 42.50		
Passat Motor 1.5/1.6L Antigo (Biela Curta)	4	IN - EX	**GC0700080**	STD 1	12.06 x 8.00 x 36.50	B	F-1
				STD 2	12.09 x 8.00 x 36.50		
				0,05	12.11 x 8.00 x 36.50		
				0,10	12.16 x 8.00 x 36.50		

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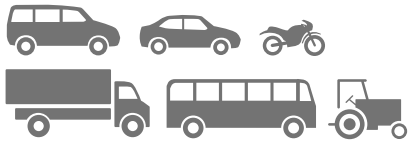
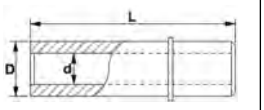
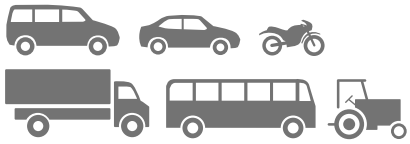
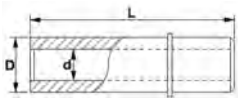
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Motor D12C 380cv/420cv - FH12, FM12, NH12	6	IN - EX	**GC0710067**	STD	15.00 x 8.00 x 83.50	FG	N
Motor N10B, NL10, N12AB, TD101, TD102, TD122, TD123EDC	6	IN	**GA0710025**	STD	18.00 x 11.04 x 82.00	FG	A-3
		EX	**GE0710024**	STD	18.01 x 11.04 x 66.00	FG	A

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x L	MATERIAL	FORMA
Modelo B-8/ B-8 C/ NT-75	-	IN - EX	**GC2310447**	STD	13.05 x 8.01 x 56.90	FG	G-6

MAHLE	ORIGINAL	RIOSULENSE	300 INDY	LINHA MOTORA
GA0140003-STD	3688760	11013040	G 1097	GENERAL MOTORS
GA0140047-STD	-	11542040	G 3023	GENERAL MOTORS
GA0140047-0,10	-	11542140	G 3023-10	GENERAL MOTORS
GA0230434-STD	119138	11040030	G 3098	FORD WILLYS
GA0480001-STD	-	11002048	-	MERCEDES-BENZ
GA0480007-STD	3120530230	11043020	G 1350	MERCEDES-BENZ
GA0480013-STD	3460530929	11184020	G 2672	MERCEDES-BENZ
GA0480033-STD	3520532229	11288020	G 2665	MERCEDES-BENZ
GA0480033-0,05	3520530729	11288920	G 2665-05	MERCEDES-BENZ
GA0510436-STD	12204PJ7305	111765045	G 3230	HONDA
GA0570017-STD	33261732	11198050	G 1549	PERKINS (MAXION)
GA0700070-STD 1	-	-	-	VOLKSWAGEN
GA0700070-STD 2	-	12145910	G 1502B-02	VOLKSWAGEN
GA0700070-0,05	-	12145110	G 1502B-05	VOLKSWAGEN
GA0700070-0,10	311101335 / 113101402	12145210	G 1502B-10	VOLKSWAGEN
GA0700070-0,20	-	12145310	G 1502B-20	VOLKSWAGEN
GA0710025-STD	422320	11231060	G 2086	VOLVO
GA0760048-STD	300957	11558035	G 1911	SCANIA
GA2110438-STD	MRF0110104 / ORF 01-10-280	11539054	G 2169	KIA MOTORS
GC0010069-STD	4749395	11939070	G 2123	FIAT-IVECO
GC0010069-0,05	-	11939970	G 2123-05	FIAT-IVECO
GC0010069-0,10	-	11939170	G 2123-10	FIAT-IVECO
GC0010069-0,20	-	11939270	G 2123-20	FIAT-IVECO
GC0060431-STD 1	7006006004	12229005	G 3094B	AGRALE
GC0110011-STD	5S4598 / 2P1262	11168000	G 1610	CATERPILLAR
GC0130008-STD	630503320034	11090080	G 1939	MWM
GC0130037-STD	922503320024	11290080	G 1931	MWM
GC0130041-STD	922983320014	11322080	G 2919	MWM
GC0130042-STD	961083320024	11323080	G 2106	MWM
GC0130063-STD	91078332002	11785080	G 2658	MWM
GC0130441-STD	KD12-17301	11119080	G 3025	MWM
GC0140027-STD	-	11237040	G 2149	GENERAL MOTORS
GC0140029-STD	-	11244040	G 2016	GENERAL MOTORS
GC0140029-0,05	-	11244940	G 2016-05	GENERAL MOTORS
GC0140092-STD 1	-	12571040	G 2016B	GENERAL MOTORS
GC0180062-STD	7701450816 / 7701452337	11768031	G 1459	RENAULT
GC0180442-STD 1	7700109151	121680031	G 2865B	RENAULT
GC0210023-STD	3553870 / 3923564 / 3901187	11221015	G 2593	CUMMINS
GC0210054-STD	3906206	11705015	G 2826	CUMMINS
GC0210432-STD	4934063	112066015	G 3312	CUMMINS
GC0250019-STD	4373602	11200070	G 1583	FIAT
GC0250028-STD	1044166	11239070	G 1715	FIAT
GC0250039-STD	7616993	11317070	G 2090	FIAT
GC0250040-STD	4371509 / 4250801	11318070	G 2148	FIAT
GC0250055-STD	7757502	11709070	G 3043	FIAT
GC0250091-STD	4373602 / 4354245 / 4222854	12568070	G 1583B	FIAT
GC0250096-STD	46736247	111086070	G 3061	FIAT
GC0250097-STD	46740631	111102070	G 3060	FIAT
GC0250100-STD	-	121101070	G 3043B	FIAT
GC0250433-STD	-	111922070	G 3290	FIAT
GC0260032-STD	-	11286030	G 3096	FORD
GC0480030-STD	4030530030 / 4220530130 / 4220530430	11260020	G 2055	MERCEDES-BENZ
GC0480053-STD	5410531230	11608020	G 2906	MERCEDES-BENZ
GC0480068-STD	9060530529	11837020	G 2869	MERCEDES-BENZ
GC0480439-STD	A6110530329	111491020	G 3262	MERCEDES-BENZ
GC0510058-STD	12206HYO305	11735045	G 3091	HONDA
GC0510099-STD	12204KRM305	111490045	G 3133	HONDA
GC0570005-STD	33261723	11038050	G 2750	PERKINS (MAXION)

MAHLE	ORIGINAL	RIOSULENSE	300 INDY	LINHA MOTORA
GC0570009-STD	70-420001	11121050	G 1910	PERKINS (MAXION)
GC0570015-STD	33431503	11194050	G 1550	PERKINS (MAXION)
GC0570016-STD	-	11195050	G 2921	PERKINS (MAXION)
GC0570043-STD	70470017 / 70470019	11507050	G 2110	GENERAL MOTORS
GC0570043-STD	70470017 / 70470019	11507050	G 2110	PERKINS (MAXION)
GC0570056-STD	ETC8003C	11710050	G 2096	PERKINS (MAXION)
GC0570056-STD	ETC8003C	11710050	G 2096	MERCEDES-BENZ
GC0570056-0,10	-	11710150	G 2096-10	MERCEDES-BENZ
GC0590010-STD	47780	11163030	G 1149	FORD
GC0590020-STD	84AU6510A	11206030	G 2019	FORD
GC0590060-STD	89 BM 6500 AB	11763030	G 2609	FORD
GC0590066-STD	-	11810030	G 2924	FORD
GC0590435-STD	70420027 / 3044493R2	112054050	G 3311	FORD
GC0630061-STD	11122-54040	11765098	G 2129	TOYOTA
GC0630443-STD	11122-15030	111782098	G 3456	TOYOTA
GC0630444-STD	11122-20020	111783098	G 3455	TOYOTA
GC0630445-STD	11122-67020	111876098	G 3416	TOYOTA
GC0630446-STD	11122-56030	11991098	G 2128	TOYOTA
GC0630446-0,05	-	11991998	G 2128-05	TOYOTA
GC0700038-STD	-	11300010	G 2918	VOLKSWAGEN
GC0700080-STD 1	056.103.419.A	12164010	G 1901B	VOLKSWAGEN
GC0700080-STD 2	-	12164910	G 1901B-03	VOLKSWAGEN
GC0700080-0,05	056.103.419.A	12164110	G 1901B-05	VOLKSWAGEN
GC0700080-0,10	-	12164210	G 1901B-10	VOLKSWAGEN
GC0700084-STD 1	5300-142	12238010	G 1921B	VOLKSWAGEN
GC0700084-STD 2	-	12238910	G 1921B-03	VOLKSWAGEN
GC0700084-0,05	49103419	12238110	G 1921B-05	VOLKSWAGEN
GC0700084-0,10	-	12238210	G 1921B-10	VOLKSWAGEN
GC0700090-STD	032.103.419.A	12549010	G 3042B	VOLKSWAGEN
GC0700093-STD 1	058.103.415	12725010	G 3015B	VOLKSWAGEN
GC0700093-STD 2	-	12725910	G 3015B-03	VOLKSWAGEN
GC0700095-STD	037.103.419.B	12757010	G 2067B	VOLKSWAGEN
GC0710067-STD	1546437 / 20905400	11818060	G 2018	VOLVO
GC0720045-STD	K80010104B	11533056	G 2922	ASIA MOTORS
GC0720046-STD	AA10010281	11537056	G 2923	ASIA MOTORS
GC0760064-STD	1334464	11798035	G 2984	SCANIA
GC2080050-STD	-	11565064	G 2776	HYUNDAI
GC2110052-STD	-	11581054	G 2700	KIA MOTORS
GC2110065-STD	K65A10104A	11809054	G 2613	KIA MOTORS
GC2310012-STD	B9B516	11173085	G 3086	FORD WILLYS
GC2310021-STD	NSB90	11215085	G 3131	FORD WILLYS
GC2310447-STD	B8B516	11172085	G 3085	YANMAR
GE0140004-STD	3688761	11014040	G 3103	GENERAL MOTORS
GE0230006-STD	119149	11039030	G 3097	FORD WILLYS
GE0250059-STD	46413458	11759070	G 2882	FIAT
GE0480002-STD	-	11003048	-	MERCEDES-BENZ
GE0480014-STD	3550530030	11185020	G 2671	MERCEDES-BENZ
GE0480026-STD	3520532030	11232020	G 1930	MERCEDES-BENZ
GE0480031-STD	3520531630	11265020	G 1590	MERCEDES-BENZ
GE0480035-STD	3520533730	11289020	G 2666	MERCEDES-BENZ
GE0480035-0,05	3520530230	11289920	G 2666-05	MERCEDES-BENZ
GE0480044-STD	-	11524020	-	MERCEDES-BENZ
GE0510022-STD	12023365300 / 120234373001 / 2206K05305	11218045	G 3088	HONDA
GE0510098-STD	12205KGA305	111336045	G 3132	HONDA
GE0510437-STD	12205PJ7305	111764045	G 3231	HONDA
GE0570018-STD	33261754	11199050	G 1548	PERKINS (MAXION)
GE0700075-STD 1	-	12146010	G 1503B	VOLKSWAGEN
GE0700075-STD 2	-	12146910	G 1503B-02	VOLKSWAGEN

MAHLE	ORIGINAL	RIOSULENSE	300 INDY	LINHA MOTORA
GE0700075-0,05	-	12146110	G 1503B-05	VOLKSWAGEN
GE0700075-0,10	311101329 / 113101416	12146210	G 1503B-10	VOLKSWAGEN
GE0700075-0,20	-	12146310	G 1503B-20	VOLKSWAGEN
GE0700088-STD 1	21101417	12248010	G 2829B	VOLKSWAGEN
GE0700088-STD 2	21101417	12248910	G 2829B-02	VOLKSWAGEN
GE0700088-0,10	-	12248210	G 2829B-10	VOLKSWAGEN
GE0700088-0,20	-	12248310	G 2829B-20	VOLKSWAGEN
GE0710024-STD	421297	11230060	G 2087	VOLVO
GE0760049-STD	300958	11559035	G 1912	SCANIA
GE0760051-STD	1398624	11573035	G 2114	SCANIA
GE1950440-STD	ME200009	111355008	G 3093	MITSUBISHI

ORIGINAL	MAHLE	RIOSULENSE	300 INDY	LINHA MOTORA
032.103.419.A	**GC0700090-STD**	12549010	G 3042B	VOLKSWAGEN
037.103.419.B	**GC0700095-STD**	12757010	G 2067B	VOLKSWAGEN
056.103.419.A	**GC0700080-0,05**	12164110	G 1901B-05	VOLKSWAGEN
056.103.419.A	**GC0700080-STD 1**	12164010	G 1901B	VOLKSWAGEN
1044166	**GC0250028-STD**	11239070	G 1715	FIAT
11122-15030	**GC0630443-STD**	111782098	G 3456	TOYOTA
11122-20020	**GC0630444-STD**	111783098	G 3455	TOYOTA
11122-54040	**GC0630061-STD**	11765098	G 2129	TOYOTA
11122-56030	**GC0630446-STD**	11991098	G 2128	TOYOTA
11122-67020	**GC0630445-STD**	111876098	G 3416	TOYOTA
119138	**GA0230434-STD**	11040030	G 3098	FORD WILLYS
119149	**GE0230006-STD**	11039030	G 3097	FORD WILLYS
12204PJ7305	**GA0510436-STD**	111765045	G 3230	HONDA
12205PJ7305	**GE0510437-STD**	111764045	G 3231	HONDA
12206HYO305	**GC0510058-STD**	11735045	G 3091	HONDA
12204KRM305	**GC0510099-STD**	111490045	G 3133	HONDA
12023365300 / 120234373001 / 2206K05305	**GE0510022-STD**	11218045	G 3088	HONDA
12205KGA305	**GE0510098-STD**	111336045	G 3132	HONDA
1334464	**GC0760064-STD**	11798035	G 2984	SCANIA
1398624	**GE0760051-STD**	11573035	G 2114	SCANIA
1546437/20905400	**GC0710067-STD**	11818060	G 2018	VOLVO
21101417	**GE0700088-STD 1**	12248010	G 2829B	VOLKSWAGEN
21101417	**GE0700088-STD 2**	12248910	G 2829B-02	VOLKSWAGEN
300957	**GA0760048-STD**	11558035	G 1911	SCANIA
300958	**GE0760049-STD**	11559035	G 1912	SCANIA
3120530230	**GA0480007-STD**	11043020	G 1350	MERCEDES-BENZ
311101335 / 113101402	**GA0700070-0,10**	12145210	G 1502B-10	VOLKSWAGEN
311101329 / 113101416	**GE0700075-0,10**	12146210	G 1503B-10	VOLKSWAGEN
33261732	**GA0570017-STD**	11198050	G 1549	PERKINS (MAXION)
33261723	**GC0570005-STD**	11038050	G 2750	PERKINS (MAXION)
33431503	**GC0570015-STD**	11194050	G 1550	PERKINS (MAXION)
33261754	**GE0570018-STD**	11199050	G 1548	PERKINS (MAXION)
3460530929	**GA0480013-STD**	11184020	G 2672	MERCEDES-BENZ
3520530729	**GA0480033-0,05**	11288920	G 2665-05	MERCEDES-BENZ
3520532229	**GA0480033-STD**	11288020	G 2665	MERCEDES-BENZ
3553870 / 3923564 / 3901187	**GC0210023-STD**	11221015	G 2593	CUMMINS
3550530030	**GE0480014-STD**	11185020	G 2671	MERCEDES-BENZ
3520532030	**GE0480026-STD**	11232020	G 1930	MERCEDES-BENZ
3520531630	**GE0480031-STD**	11265020	G 1590	MERCEDES-BENZ
3520530230	**GE0480035-0,05**	11289920	G 2666-05	MERCEDES-BENZ
3520533730	**GE0480035-STD**	11289020	G 2666	MERCEDES-BENZ
3688760	**GA0140003-STD**	11013040	G 1097	GENERAL MOTORS
3688761	**GE0140004-STD**	11014040	G 3103	GENERAL MOTORS
3906206	**GC0210054-STD**	11705015	G 2826	CUMMINS
4030530030	**GC0480030-STD**	11260020	G 2055	MERCEDES-BENZ
4030530030 / 4220530130 / 4220530430	**GC0480030-STD**	11260020	G 2055	MERCEDES-BENZ
422320	**GA0710025-STD**	11231060	G 2086	VOLVO
421297	**GE0710024-STD**	11230060	G 2087	VOLVO
4373602	**GC0250019-STD**	11200070	G 1583	FIAT
4371509 / 4250801	**GC0250040-STD**	11318070	G 2148	FIAT
4373602 / 4354245 / 4222854	**GC0250091-STD**	12568070	G 1583B	FIAT
46736247	**GC0250096-STD**	111086070	G 3061	FIAT
46740631	**GC0250097-STD**	111102070	G 3060	FIAT
46413458	**GE0250059-STD**	11759070	G 2882	FIAT
4749395	**GC0010069-STD**	11939070	G 2123	IVECO
47780	**GC0590010-STD**	11163030	G 1149	FORD
49103419	**GC0700084-0,05**	12238110	G 1921B-05	VOLKSWAGEN
4934063	**GC0210432-STD**	112066015	G 3312	CUMMINS

ORIGINAL	MAHLE	RIOSULENSE	300 INDY	LINHA MOTORA
5300-142	**GC0700084-STD 1**	12238010	G 1921B	VOLKSWAGEN
5410531230	**GC0480053-STD**	11608020	G 2906	MERCEDES-BENZ
58.103.415	**GC0700093-STD 1**	12725010	G 3015B	VOLKSWAGEN
5S4598 / 2P1262	**GC0110011-STD**	11168000	G 1610	CATERPILLAR
630503320034	**GC0130008-STD**	11090080	G 1939	MWM
7006006004	**GC0060431-STD 1**	12229005	G 3094B	AGRALE
70-420001	**GC0570009-STD**	11121050	G 1910	PERKINS (MAXION)
70420027 / 3044493R2	**GC0590435-STD**	112054050	G 3311	FORD
70470017	**GC0570043-STD**	-	-	GENERAL MOTORS
70470017 / 70470019	**GC0570043-STD**	11507050	G 2110	PERKINS (MAXION)
7616993	**GC0250039-STD**	11317070	G 2090	FIAT
7700109151	**GC0180442-STD 1**	121680031	G 2865B	RENAULT
7701450816 / 7701452337	**GC0180062-STD**	11768031	G 1459	RENAULT
7757502	**GC0250055-STD**	11709070	G 3043	FIAT
84AU6510A	**GC0590020-STD**	11206030	G 2019	FORD
89 BM 6500 AB	**GC0590060-STD**	11763030	G 2609	FORD
9060530529	**GC0480068-STD**	11837020	G 2869	MERCEDES-BENZ
91078332002	**GC0130063-STD**	11785080	G 2658	MWM
922503320024	**GC0130037-STD**	11290080	G 1931	MWM
922983320014	**GC0130041-STD**	11322080	G 2919	MWM
961083320024	**GC0130042-STD**	11323080	G 2106	MWM
A6110530329	**GC0480439-STD**	111491020	G 3262	MERCEDES-BENZ
AA10010281	**GC0720046-STD**	11537056	G 2923	ASIA MOTORS
B8B516	**GC2310447-STD**	11172085	G 3085	YANMAR
B9B516	**GC2310012-STD**	11173085	G 3086	FORD WILLYS
ETC8003C	**GC0570056-STD**	11710050	G 2096	MERCEDES-BENZ
ETC8003C	**GC0570056-STD**	11710050	G 2096	PERKINS (MAXION)
K65A10104A	**GC2110065-STD**	11809054	G 2613	KIA MOTORS
K80010104B	**GC0720045-STD**	11533056	G 2922	ASIA MOTORS
KD12-17301	**GC0130441-STD**	11119080	G 3025	MWM
ME200009	**GE1950440-STD**	111355008	G 3093	MITSUBISHI
MRF0110104 / ORF 01-10-280	**GA2110438-STD**	11539054	G 2169	KIA MOTORS
NSB90	**GC2310021-STD**	11215085	G 3131	FORD WILLYS

RIOSULENSE	MAHLE	ORIGINAL	300 INDY	LINHA MOTORA
11002048	**GA0480001-STD**	-	-	MERCEDES-BENZ
11003048	**GE0480002-STD**	-	-	MERCEDES-BENZ
11013040	**GA0140003-STD**	3688760	G 1097	GENERAL MOTORS
11014040	**GE0140004-STD**	3688761	G 3103	GENERAL MOTORS
11038050	**GC0570005-STD**	33261723	G 2750	PERKINS (MAXION)
11039030	**GE0230006-STD**	119149	G 3097	FORD WILLYS
11040030	**GA0230434-STD**	119138	G 3098	FORD WILLYS
11043020	**GA0480007-STD**	3120530230	G 1350	MERCEDES-BENZ
11090080	**GC0130008-STD**	630503320034	G 1939	MWM
111086070	**GC0250096-STD**	46736247	G 3061	FIAT
111102070	**GC0250097-STD**	46740631	G 3060	FIAT
11119080	**GC0130441-STD**	KD12-17301	G 3025	MWM
11121050	**GC0570009-STD**	70-420001	G 1910	PERKINS (MAXION)
111336045	**GE0510098-STD**	12205KGA305	G 3132	HONDA
111355008	**GE1950440-STD**	ME200009	G 3093	MITSUBISHI
111490045	**GC0510099-STD**	12204KRM305	G 3133	HONDA
111491020	**GC0480439-STD**	A6110530329	G 3262	MERCEDES-BENZ
11163030	**GC0590010-STD**	47780	G 1149	FORD
11168000	**GC0110011-STD**	5S4598 / 2P1262	G 1610	CATERPILLAR
11172085	**GC2310447-STD**	B8B516	G 3085	YANMAR
11173085	**GC2310012-STD**	B9B516	G 3086	FORD WILLYS
111764045	**GE0510437-STD**	12205PJ7305	G 3231	HONDA
111765045	**GA0510436-STD**	12204PJ7305	G 3230	HONDA
111782098	**GC0630443-STD**	11122-15030	G 3456	TOYOTA
111783098	**GC0630444-STD**	11122-20020	G 3455	TOYOTA
11184020	**GA0480013-STD**	3460530929	G 2672	MERCEDES-BENZ
11185020	**GE0480014-STD**	3550530030	G 2671	MERCEDES-BENZ
111876098	**GC0630445-STD**	11122-67020	G 3416	TOYOTA
111922070	**GC0250433-STD**	-	G 3290	FIAT
11194050	**GC0570015-STD**	33431503	G 1550	PERKINS (MAXION)
11195050	**GC0570016-STD**	-	G 2921	PERKINS (MAXION)
11198050	**GA0570017-STD**	33261732	G 1549	PERKINS (MAXION)
11199050	**GE0570018-STD**	33261754	G 1548	PERKINS (MAXION)
11200070	**GC0250019-STD**	4373602	G 1583	FIAT
112054050	**GC0590435-STD**	70420027 / 3044493R2	G 3311	FORD
11206030	**GC0590020-STD**	84AU6510A	G 2019	FORD
112066015	**GC0210432-STD**	4934063	G 3312	CUMMINS
11215085	**GC2310021-STD**	NSB90	G 3131	FORD WILLYS
11218045	**GE0510022-STD**	12023365300 / 120234373001 / 2206K05305	G 3088	HONDA
11221015	**GC0210023-STD**	3553870 / 3923564 / 3901187	G 2593	CUMMINS
11230060	**GE0710024-STD**	421297	G 2087	VOLVO
11231060	**GA0710025-STD**	422320	G 2086	VOLVO
11232020	**GE0480026-STD**	3520532030	G 1930	MERCEDES-BENZ
11237040	**GC0140027-STD**	-	G 2149	GENERAL MOTORS
11239070	**GC0250028-STD**	1044166	G 1715	FIAT
11244040	**GC0140029-STD**	-	G 2016	GENERAL MOTORS
11244940	**GC0140029-0,05**	-	G 2016-05	GENERAL MOTORS
11260020	**GC0480030-STD**	4030530030 / 4220530130 / 4220530430	G 2055	MERCEDES-BENZ
11265020	**GE0480031-STD**	3520531630	G 1590	MERCEDES-BENZ
11286030	**GC0260032-STD**	-	G 3096	FORD
11288020	**GA0480033-STD**	3520532229	G 2665	MERCEDES-BENZ
11288920	**GA0480033-0,05**	3520530729	G 2665-05	MERCEDES-BENZ
11289020	**GE0480035-STD**	3520533730	G 2666	MERCEDES-BENZ
11289920	**GE0480035-0,05**	3520530230	G 2666-05	MERCEDES-BENZ
11290080	**GC0130037-STD**	922503320024	G 1931	MWM
11300010	**GC0700038-STD**	-	G 2918	VOLKSWAGEN
11317070	**GC0250039-STD**	7616993	G 2090	FIAT
11318070	**GC0250040-STD**	4371509 / 4250801	G 2148	FIAT

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RIOSULENSE	MAHLE	ORIGINAL	300 INDY	LINHA MOTORA
11322080	**GC0130041-STD**	922983320014	G 2919	MWM
11323080	**GC0130042-STD**	961083320024	G 2106	MWM
11507050	**GC0570043-STD**	70470017 / 70470019	G 2110	PERKINS (MAXION)
11524020	**GE0480044-STD**	-	-	MERCEDES-BENZ
11533056	**GC0720045-STD**	K80010104B	G 2922	ASIA MOTORS
11537056	**GC0720046-STD**	AA10010281	G 2923	ASIA MOTORS
11539054	**GA2110438-STD**	MRF0110104 / ORF 01-10-280	G 2169	KIA MOTORS
11542040	**GA0140047-STD**	-	G 3023	GENERAL MOTORS
11542140	**GA0140047-0,10**	-	G 3023-10	GENERAL MOTORS
11558035	**GA0760048-STD**	300957	G 1911	SCANIA
11559035	**GE0760049-STD**	300958	G 1912	SCANIA
11565064	**GC2080050-STD**	-	G 2776	HYUNDAI
11573035	**GE0760051-STD**	1398624	G 2114	SCANIA
11581054	**GC2110052-STD**	-	G 2700	KIA MOTORS
11608020	**GC0480053-STD**	5410531230	G 2906	MERCEDES-BENZ
11705015	**GC0210054-STD**	3906206	G 2826	CUMMINS
11709070	**GC0250055-STD**	7757502	G 3043	FIAT
11710050	**GC0570056-STD**	ETC8003C	G 2096	MERCEDES-BENZ
11710050	**GC0570056-STD**	ETC8003C	G 2096	PERKINS (MAXION)
11710150	**GC0570056-0,10**	-	G 2096-10	MERCEDES-BENZ
11735045	**GC0510058-STD**	12206HYO305	G 3091	HONDA
11759070	**GE0250059-STD**	46413458	G 2882	FIAT
11763030	**GC0590060-STD**	89 BM 6500 AB	G 2609	FORD
11765098	**GC0630061-STD**	11122-54040	G 2129	TOYOTA
11768031	**GC0180062-STD**	7701450816 / 7701452337	G 1459	RENAULT
11785080	**GC0130063-STD**	91078332002	G 2658	MWM
11798035	**GC0760064-STD**	1334464	G 2984	SCANIA
11809054	**GC2110065-STD**	K65A10104A	G 2613	KIA MOTORS
11810030	**GC0590066-STD**	-	G 2924	FORD
11818060	**GC0710067-STD**	1546437/20905400	G 2018	VOLVO
11837020	**GC0480068-STD**	9060530529	G 2869	MERCEDES-BENZ
11939070	**GC0010069-STD**	4749395	G 2123	IVECO
11939170	**GC0010069-0,10**	-	G 2123-10	FIAT-IVECO
11939270	**GC0010069-0,20**	-	G 2123-20	FIAT-IVECO
11939970	**GC0010069-0,05**	-	G 2123-05	FIAT-IVECO
11991098	**GC0630446-STD**	11122-56030	G 2128	TOYOTA
11991998	**GC0630446-0,05**	-	G 2128-05	TOYOTA
121101070	**GC0250100-STD**	-	G 3043B	FIAT
12145110	**GA0700070-0,05**	-	G 1502B-05	VOLKSWAGEN
12145210	**GA0700070-0,10**	311101335 / 113101402	G 1502B-10	VOLKSWAGEN
12145310	**GA0700070-0,20**	-	G 1502B-20	VOLKSWAGEN
12145910	**GA0700070-STD 2**	-	G 1502B-02	VOLKSWAGEN
12146010	**GE0700075-STD 1**	-	G 1503B	VOLKSWAGEN
12146110	**GE0700075-0,05**	-	G 1503B-05	VOLKSWAGEN
12146210	**GE0700075-0,10**	311101329 / 113101416	G 1503B-10	VOLKSWAGEN
12146310	**GE0700075-0,20**	-	G 1503B-20	VOLKSWAGEN
12146910	**GE0700075-STD 2**	-	G 1503B-02	VOLKSWAGEN
12164010	**GC0700080-STD 1**	056.103.419.A	G 1901B	VOLKSWAGEN
12164110	**GC0700080-0,05**	056.103.419.A	G 1901B-05	VOLKSWAGEN
12164210	**GC0700080-0,10**	-	G 1901B-10	VOLKSWAGEN
12164910	**GC0700080-STD 2**	-	G 1901B-03	VOLKSWAGEN
121680031	**GC0180442-STD 1**	7700109151	G 2865B	RENAULT
12229005	**GC0060431-STD 1**	7006006004	G 3094B	AGRALE
12238010	**GC0700084-STD 1**	5300-142	G 1921B	VOLKSWAGEN
12238110	**GC0700084-0,05**	49103419	G 1921B-05	VOLKSWAGEN
12238210	**GC0700084-0,10**	-	G 1921B-10	VOLKSWAGEN
12238910	**GC0700084-STD 2**	-	G 1921B-03	VOLKSWAGEN
12248010	**GE0700088-STD 1**	21101417	G 2829B	VOLKSWAGEN

RIOSULENSE	MAHLE	ORIGINAL	300 INDY	LINHA MOTORA
12248210	**GE0700088-0,10**	-	G 2829B-10	VOLKSWAGEN
12248310	**GE0700088-0,20**	-	G 2829B-20	VOLKSWAGEN
12248910	**GE0700088-STD 2**	21101417	G 2829B-02	VOLKSWAGEN
12549010	**GC0700090-STD**	032.103.419.A	G 3042B	VOLKSWAGEN
12568070	**GC0250091-STD**	4373602 / 4354245 / 4222854	G 1583B	FIAT
12571040	**GC0140092-STD 1**	-	G 2016B	GENERAL MOTORS
12725010	**GC0700093-STD 1**	058.103.415	G 3015B	VOLKSWAGEN
12725910	**GC0700093-STD 2**	-	G 3015B-03	VOLKSWAGEN
12757010	**GC0700095-STD**	037.103.419.B	G 2067B	VOLKSWAGEN

300 INDY	MAHLE	ORIGINAL	RIOSULENSE	LINHA MOTORA
G 1097	**GA0140003-STD**	3688760	11013040	GENERAL MOTORS
G 1149	**GC0590010-STD**	47780	11163030	FORD
G 1350	**GA0480007-STD**	3120530230	11043020	MERCEDES-BENZ
G 1459	**GC0180062-STD**	7701450816 / 7701452337	11768031	RENAULT
G 1502B-02	**GA0700070-STD 2**	-	12145910	VOLKSWAGEN
G 1502B-05	**GA0700070-0,05**	-	12145110	VOLKSWAGEN
G 1502B-10	**GA0700070-0,10**	311101335 / 113101402	12145210	VOLKSWAGEN
G 1502B-20	**GA0700070-0,20**	-	12145310	VOLKSWAGEN
G 1503B	**GE0700075-STD 1**	-	12146010	VOLKSWAGEN
G 1503B-02	**GE0700075-STD 2**	-	12146910	VOLKSWAGEN
G 1503B-05	**GE0700075-0,05**	-	12146110	VOLKSWAGEN
G 1503B-10	**GE0700075-0,10**	311101329 / 113101416	12146210	VOLKSWAGEN
G 1503B-20	**GE0700075-0,20**	-	12146310	VOLKSWAGEN
G 1548	**GE0570018-STD**	33261754	11199050	PERKINS (MAXION)
G 1549	**GA0570017-STD**	33261732	11198050	PERKINS (MAXION)
G 1550	**GC0570015-STD**	33431503	11194050	PERKINS (MAXION)
G 1583	**GC0250019-STD**	4373602	11200070	FIAT
G 1583B	**GC0250091-STD**	4373602 / 4354245 / 4222854	12568070	FIAT
G 1590	**GE0480031-STD**	3520531630	11265020	MERCEDES-BENZ
G 1610	**GC0110011-STD**	5S4598 / 2P1262	11168000	CATERPILLAR
G 1715	**GC0250028-STD**	1044166	11239070	FIAT
G 1901B	**GC0700080-STD 1**	056.103.419.A	12164010	VOLKSWAGEN
G 1901B-03	**GC0700080-STD 2**	-	12164910	VOLKSWAGEN
G 1901B-05	**GC0700080-0,05**	056.103.419.A	12164110	VOLKSWAGEN
G 1901B-10	**GC0700080-0,10**	-	12164210	VOLKSWAGEN
G 1910	**GC0570009-STD**	70-420001	11121050	PERKINS (MAXION)
G 1911	**GA0760048-STD**	300957	11558035	SCANIA
G 1912	**GE0760049-STD**	300958	11559035	SCANIA
G 1921B	**GC0700084-STD 1**	5300-142	12238010	VOLKSWAGEN
G 1921B-03	**GC0700084-STD 2**	-	12238910	VOLKSWAGEN
G 1921B-05	**GC0700084-0,05**	49103419	12238110	VOLKSWAGEN
G 1921B-10	**GC0700084-0,10**	-	12238210	VOLKSWAGEN
G 1930	**GE0480026-STD**	3520532030	11232020	MERCEDES-BENZ
G 1931	**GC0130037-STD**	922503320024	11290080	MWM
G 1939	**GC0130008-STD**	630503320034	11090080	MWM
G 2016	**GC0140029-STD**	-	11244040	GENERAL MOTORS
G 2016-05	**GC0140029-0,05**	-	11244940	GENERAL MOTORS
G 2016B	**GC0140092-STD 1**	-	12571040	GENERAL MOTORS
G 2018	**GC0710067-STD**	1546437/20905400	11818060	VOLVO
G 2019	**GC0590020-STD**	84AU6510A	11206030	FORD
G 2055	**GC0480030-STD**	4030530030 / 4220530130 / 4220530430	11260020	MERCEDES-BENZ
G 2067B	**GC0700095-STD**	037.103.419.B	12757010	VOLKSWAGEN
G 2086	**GA0710025-STD**	422320	11231060	VOLVO
G 2087	**GE0710024-STD**	421297	11230060	VOLVO
G 2090	**GC0250039-STD**	7616993	11317070	FIAT
G 2096	**GC0570056-STD**	ETC8003C	11710050	MERCEDES-BENZ
G 2096	**GC0570056-STD**	ETC8003C	11710050	PERKINS (MAXION)
G 2096-10	**GC0570056-0,10**	-	11710150	MERCEDES-BENZ
G 2106	**GC0130042-STD**	961083320024	11323080	MWM
G 2110	**GC0570043-STD**	70470017 / 70470019	11507050	PERKINS (MAXION)
G 2114	**GE0760051-STD**	1398624	11573035	SCANIA
G 2123	**GC0010069-STD**	4749395	11939070	IVECO
G 2123-05	**GC0010069-0,05**	-	11939970	FIAT-IVECO
G 2123-10	**GC0010069-0,10**	-	11939170	FIAT-IVECO
G 2123-20	**GC0010069-0,20**	-	11939270	FIAT-IVECO
G 2128	**GC0630446-STD**	11122-56030	11991098	TOYOTA
G 2128-05	**GC0630446-0,05**	-	11991998	TOYOTA
G 2129	**GC0630061-STD**	11122-54040	11765098	TOYOTA

300 INDY	MAHLE	ORIGINAL	RIOSULENSE	LINHA MOTORA
G 2148	**GC0250040-STD**	4371509 / 4250801	11318070	FIAT
G 2149	**GC0140027-STD**	-	11237040	GENERAL MOTORS
G 2169	**GA2110438-STD**	MRF0110104 / ORF 01-10-280	11539054	KIA MOTORS
G 2593	**GC0210023-STD**	3553870 / 3923564 / 3901187	11221015	CUMMINS
G 2609	**GC0590060-STD**	89 BM 6500 AB	11763030	FORD
G 2613	**GC2110065-STD**	K65A10104A	11809054	KIA MOTORS
G 2658	**GC0130063-STD**	91078332002	11785080	MWM
G 2665	**GA0480033-STD**	3520532229	11288020	MERCEDES-BENZ
G 2665-05	**GA0480033-0,05**	3520530729	11288920	MERCEDES-BENZ
G 2666	**GE0480035-STD**	3520533730	11289020	MERCEDES-BENZ
G 2666-05	**GE0480035-0,05**	3520530230	11289920	MERCEDES-BENZ
G 2671	**GE0480014-STD**	3550530030	11185020	MERCEDES-BENZ
G 2672	**GA0480013-STD**	3460530929	11184020	MERCEDES-BENZ
G 2700	**GC2110052-STD**	-	11581054	KIA MOTORS
G 2750	**GC0570005-STD**	33261723	11038050	PERKINS (MAXION)
G 2776	**GC2080050-STD**	-	11565064	HYUNDAI
G 2826	**GC0210054-STD**	3906206	11705015	CUMMINS
G 2829B	**GE0700088-STD 1**	21101417	12248010	VOLKSWAGEN
G 2829B-02	**GE0700088-STD 2**	21101417	12248910	VOLKSWAGEN
G 2829B-10	**GE0700088-0,10**	-	12248210	VOLKSWAGEN
G 2829B-20	**GE0700088-0,20**	-	12248310	VOLKSWAGEN
G 2865B	**GC0180442-STD 1**	7700109151	121680031	RENAULT
G 2869	**GC0480068-STD**	9060530529	11837020	MERCEDES-BENZ
G 2882	**GE0250059-STD**	46413458	11759070	FIAT
G 2906	**GC0480053-STD**	5410531230	11608020	MERCEDES-BENZ
G 2918	**GC0700038-STD**	-	11300010	VOLKSWAGEN
G 2919	**GC0130041-STD**	922983320014	11322080	MWM
G 2921	**GC0570016-STD**	-	11195050	PERKINS (MAXION)
G 2922	**GC0720045-STD**	K80010104B	11533056	ASIA MOTORS
G 2923	**GC0720046-STD**	AA10010281	11537056	ASIA MOTORS
G 2924	**GC0590066-STD**	-	11810030	FORD
G 2984	**GC0760064-STD**	1334464	11798035	SCANIA
G 3015B	**GC0700093-STD 1**	058.103.415	12725010	VOLKSWAGEN
G 3015B-03	**GC0700093-STD 2**	-	12725910	VOLKSWAGEN
G 3023	**GA0140047-STD**	-	11542040	GENERAL MOTORS
G 3023-10	**GA0140047-0,10**	-	11542140	GENERAL MOTORS
G 3025	**GC0130441-STD**	KD12-17301	11119080	MWM
G 3042B	**GC0700090-STD**	032.103.419.A	12549010	VOLKSWAGEN
G 3043	**GC0250055-STD**	7757502	11709070	FIAT
G 3043B	**GC0250100-STD**	-	121101070	FIAT
G 3060	**GC0250097-STD**	46740631	111102070	FIAT
G 3061	**GC0250096-STD**	46736247	111086070	FIAT
G 3085	**GC2310447-STD**	B8B516	11172085	YANMAR
G 3086	**GC2310012-STD**	B9B516	11173085	FORD WILLYS
G 3088	**GE0510022-STD**	12023365300 / 120234373001 / 2206K05305	11218045	HONDA
G 3091	**GC0510058-STD**	12206HYO305	11735045	HONDA
G 3093	**GE1950440-STD**	ME200009	111355008	MITSUBISHI
G 3094B	**GC0060431-STD 1**	7006006004	12229005	AGRALE
G 3096	**GC0260032-STD**	-	11286030	FORD
G 3097	**GE0230006-STD**	119149	11039030	FORD WILLYS
G 3098	**GA0230434-STD**	119138	11040030	FORD WILLYS
G 3103	**GE0140004-STD**	3688761	11014040	GENERAL MOTORS
G 3131	**GC2310021-STD**	NSB90	11215085	FORD WILLYS
G 3132	**GE0510098-STD**	12205KGA305	111336045	HONDA
G 3133	**GC0510099-STD**	12204KRM305	111490045	HONDA
G 3230	**GA0510436-STD**	12204PJ7305	111765045	HONDA
G 3231	**GE0510437-STD**	12205PJ7305	111764045	HONDA
G 3262	**GC0480439-STD**	A6110530329	111491020	MERCEDES-BENZ

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300 INDY	MAHLE	ORIGINAL	RIOSULENSE	LINHA MOTORA
G 3290	**GC0250433-STD**	-	111922070	FIAT
G 3311	**GC0590435-STD**	70420027 / 3044493R2	112054050	FORD
G 3312	**GC0210432-STD**	4934063	112066015	CUMMINS
G 3416	**GC0630445-STD**	11122-67020	111876098	TOYOTA
G 3455	**GC0630444-STD**	11122-20020	111783098	TOYOTA
G 3456	**GC0630443-STD**	11122-15030	111782098	TOYOTA

Sedes de Válvulas

Os assentos das válvulas são fabricados com aços fundidos de altas ligas e passam por tratamentos térmicos em fornos de atmosfera controlada que garantem uma estrutura resistente ao impacto, atrito e às altas temperaturas provocadas pelos motores turboalimentados e pelas condições extremas dos motores a GNC/GLP.

A partir da utilização dos alojamentos de alumínio surgiu a necessidade de incorporação de insertos que sejam capazes de resistir a solicitações mecânicas que são produzidas na câmara de combustão.

Tipos e termos técnicos

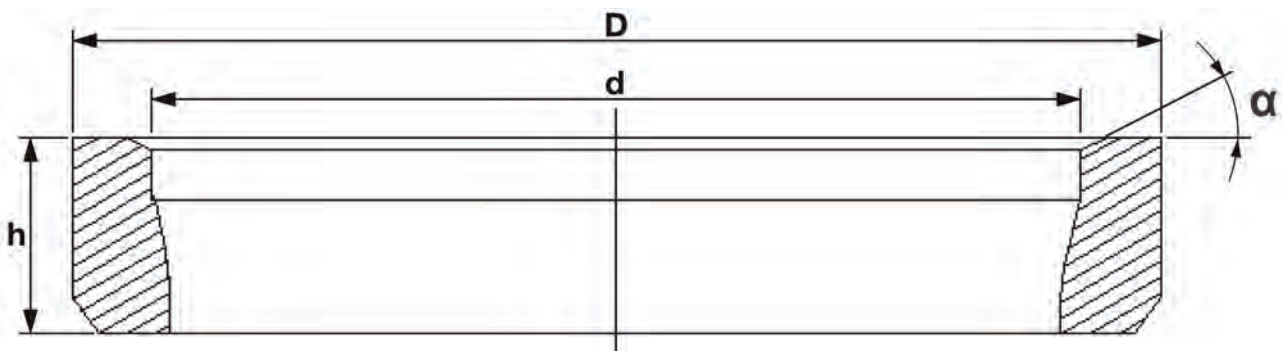
SA - Sede de válvula de admissão.
SE - Sede de válvula de escape.

Função

- Impedir que a cabeça da válvula e o alojamento se fundam.
- Garantir um fechamento perfeito junto com a válvula para selar a câmara de combustão.
- Assegurar a condutividade térmica para a dissipação de calor da cabeça da válvula, pois esta retira aproximadamente 80% do calor contido por meio do assento dela.
- Manter as superfícies internas com coeficientes de deslizamentos altos para assegurar a correta fluidez da mistura ar e combustível.

Características indicadas na coluna de medidas:
D) diâmetro externo;
d) diâmetro interno;
h) altura;

a) ângulo da sede.



Estrutura da página e decodificação dos códigos das peças

1 MERCEDES-BENZ

MAHLE

2	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	D x d x h 7	α 8
Motor OM 352A/314-L1517/18 Turbo, OM 352-L1114 No Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 352A-L1517, L1518 Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 366 - OM 364LA Turbo Intercooler	4	IN	**SA0480112**	STD	43,87 x 34,5 x 7,5	20°
Motor OM 366 Turbo	4/6	IN	**SA0480059**	0,1	43,97 x 35 x 7,4	30°
		IN	**SA0480059**	0,2	44,07 x 35 x 7,4	30°
		IN	**SA0480059**	0,3	44,17 x 35 x 7,4	30°
		EX	**SE0480080**	0,1	38,17 x 30 x 8	45°
		EX	**SE0480080**	0,2	38,37 x 30 x 8	45°
		IN	**SA0480059**	STD	43,87 x 35 x 7,4	30°
		EX	**SE0480080**	STD	38,07 x 30 x 8	45°
Motor OM 366, OM 364 Asp. Normal y Turbo	4/6	IN	**SA0480087**	0,1	43,97 x 35 x 7,7	30°
		IN	**SA0480087**	0,5	44,37 x 35 x 7,7	30°
		EX	**SE0480038**	0,1	38,17 x 28 x 8,5	45°
		EX	**SE0480038**	0,2	38,27 x 28 x 8,5	45°
		EX	**SE0480038**	0,5	38,57 x 28 x 8,5	45°
		EX	**SE0480038**	1,00	39,07 x 28 x 8,5	45°
		EX	**SE0480038**	2,00	40,07 x 28 x 8,5	45°
		EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
		IN	**SA0480087**	STD	43,87 x 35 x 7,7	30°
Motor OM 447LA-449LA	5/6	IN	**SA0480090**	0,1	60,2 x 49,3 x 8,35	30°
		IN	**SA0480090**	STD	60,1 x 49,3 x 8,35	30°
		EX	**SE0480092**	STD	53,1 x 43 x 9,2	45°
Motor OM 501LA V6 24v., OM 502LA V8 32v., OM 457	6	IN	**SA0480070**	STD	47,39 x 36,5 x 7,8	30°
		EX	**SE0480032**	STD	43,09 x 34,3 x 8	45°
OM 355 - OM 355 O (ônibus) aspirado	5/6	EX	**SE0480044**	0,1	40,17 x 31 x 7,47	45°
		EX	**SE0480044**	0,2	40,27 x 31 x 7,47	45°
		IN	**SA0480056**	STD	51,07 x 37 x 7,47	45°
		EX	**SE0480044**	STD	40,07 x 31 x 7,47	45°
OM314 - OM352 - OM352A (Aspirado/ Turbinado)	4/6	IN	**SA0480033**	0,1	45,17 x 37 x 8,3	45°
		IN	**SA0480033**	0,2	45,27 x 37 x 8,3	45°
		IN	**SA0480033**	1,00	46,07 x 37 x 8,3	45°
			SA0480033	00	47,07 x [illegible] x 8,3	45°
					[illegible]	45°
OM3[illegible]						

1 Fabricante
2 Nome do motor
Dados do motor
Veículos
Ano de fabricação
3 Número do cilindro
4 Função
IN = Admissão
EX = Escape
IN - EX = Comum

5 Número de artigo da sede de válvula
Ex.: SA 048 0033
- Número sequencial
- Linha motora
- SA - Sede de válvula de admissão
- SE - Sede de válvula de escape

6 Medidas
7 Dimensões
8 Ângulo

Valve Seats

Valve seats are manufactured with high cast alloy steels and are thermally treated in ovens at controlled atmosphere to ensure a structure that is resistant to impact, friction and the high temperatures in turbo charger engines and extreme conditions of GNC/GLP engines.

Since the use of aluminum housings started, there has been a need to incorporate inserts that can withstand the mechanical demands produced in the combustion chamber.

Types and technical words

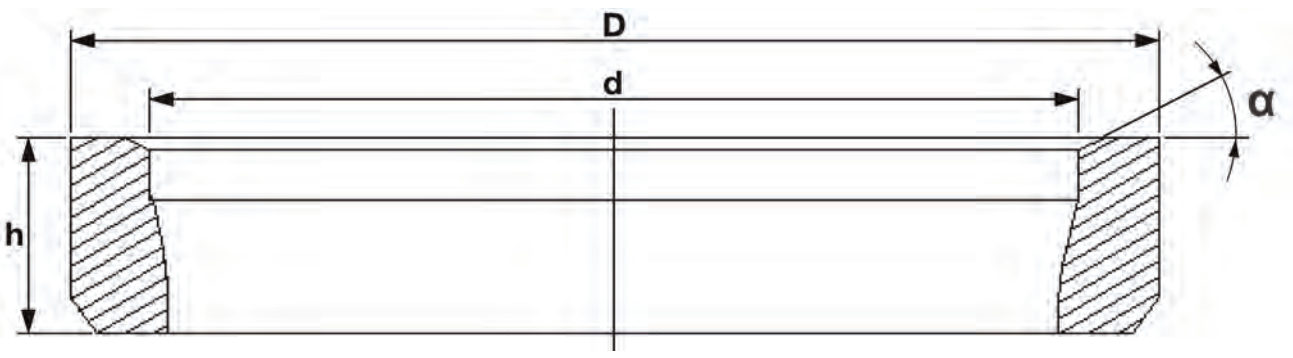
SA - Intake valve seat.
SE - Exhaust valve seat.

Purpose

- Prevent the valve head and the housing from melting.
- Ensure perfect closure with the valve to seal the combustion chamber.
- Ensure thermal conductivity to dissipate heat from the valve head, as it can remove about 80% of contained heat through its seat.
- Keep internal surfaces at high sliding rates to ensure appropriate flow of air and combustible mixture.

Characteristics described in the dimensions column
D) Outside Diameter
d) Inside Diameter
h) Height

a) Seat Angle



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Page structure and part code decoding

1 MERCEDES-BENZ

MAHLE

2	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	D x d x h 7	α 8
Motor OM 352A/314-L1517/18 Turbo, OM 352-L1114 No Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 352A-L1517, L1518 Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 366 - OM 364LA Turbo Intercooler	4	IN	**SA0480112**	STD	43,87 x 34,5 x 7,5	20°
Motor OM 366 Turbo	4/6	IN	**SA0480059**	0,1	43,97 x 35 x 7,4	30°
		IN	**SA0480059**	0,2	44,07 x 35 x 7,4	30°
		IN	**SA0480059**	0,3	44,17 x 35 x 7,4	30°
		EX	**SE0480080**	0,1	38,17 x 30 x 8	45°
		EX	**SE0480080**	0,2	38,37 x 30 x 8	45°
		IN	**SA0480059**	STD	43,87 x 35 x 7,4	30°
		EX	**SE0480080**	STD	38,07 x 30 x 8	45°
Motor OM 366, OM 364 Asp. Normal y Turbo	4/6	IN	**SA0480087**	0,1	43,97 x 35 x 7,7	30°
		IN	**SA0480087**	0,5	44,37 x 35 x 7,7	30°
		EX	**SE0480038**	0,1	38,17 x 28 x 8,5	45°
		EX	**SE0480038**	0,2	38,27 x 28 x 8,5	45°
		EX	**SE0480038**	0,5	38,57 x 28 x 8,5	45°
		EX	**SE0480038**	1,00	39,07 x 28 x 8,5	45°
		EX	**SE0480038**	2,00	40,07 x 28 x 8,5	45°
		EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
		IN	**SA0480087**	STD	43,87 x 35 x 7,7	30°
Motor OM 447LA-449LA	5/6	IN	**SA0480090**	0,1	60,2 x 49,3 x 8,35	30°
		IN	**SA0480090**	STD	60,1 x 49,3 x 8,35	30°
		EX	**SE0480092**	STD	53,1 x 43 x 9,2	45°
Motor OM 501LA V6 24v., OM 502LA V8 32v., OM 457	6	IN	**SA0480070**	STD	47,39 x 36,5 x 7,8	30°
		EX	**SE0480032**	STD	43,09 x 34,3 x 8	45°
OM 355 - OM 355 O (ônibus) aspirado	5/6	EX	**SE0480044**	0,1	40,17 x 31 x 7,47	45°
		EX	**SE0480044**	0,2	40,27 x 31 x 7,47	45°
		IN	**SA0480056**	STD	51,07 x 37 x 7,47	45°
		EX	**SE0480044**	STD	40,07 x 31 x 7,47	45°
OM314 - OM352 - OM352A (Aspirado/ Turbinado)	4/6	IN	**SA0480033**	0,1	45,17 x 37 x 8,3	45°
		IN	**SA0480033**	0,2	45,27 x 37 x 8,3	45°
		IN	**SA0480033**	1,00	46,07 x 37 x 8,3	45°
			SA0480033	00	47,07 x [illegible] x 8,3	45°
					[illegible]	45°
OM3[illegible]						

1 Manufacturer
2 Engine Name
Engine Data
Vehicles
Manufacturing Year
3 Cylinder number
4 Function
IN = Intake
EX = Exhaust
IN - EX = Common

5 Valve Seat Part Number
Ex.: SA 048 0033
- Sequence Number
- Engine Line
- SA - Intake valve seat
- SE - Exhaust valve seat

6 Sizes
7 Dimensions
8 Angle

Asientos de Válvulas

Los asientos de válvulas son fabricados con aceros fundidos de aleaciones elevadas y tratamientos térmicos en hornos de atmósfera controlada, que garantizan una estructura resistente al impacto, a la fricción y a las elevadas temperaturas provocadas por los turbomotores (que mezclan aire con combustible) y por las condiciones extremas de los motores a GNC/GLP.

Desde el uso de los alojamientos de aluminio, surgió la necesidad de incorporar insertos que sean capaces de soportar las solicitudes (cargas – tensiones) mecánicas que son producidas en la cámara de combustión.

Tipos y conceptos técnicos

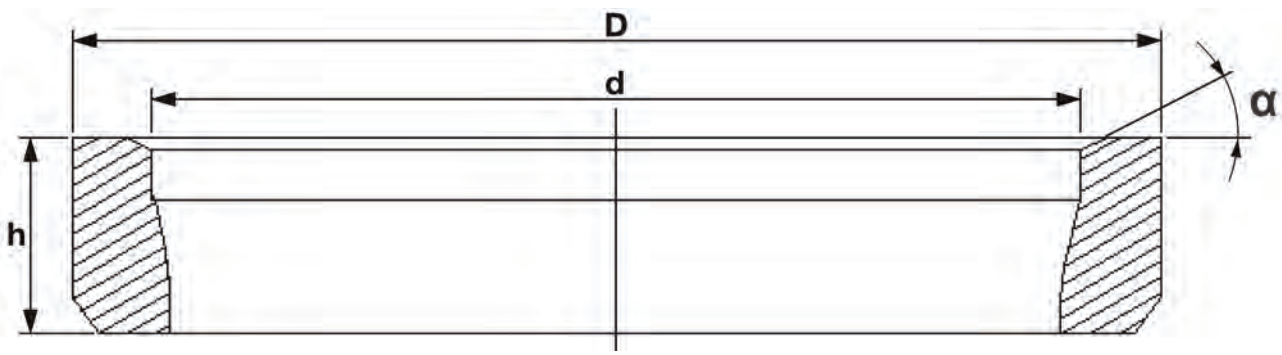
SA - Asiento de válvula de admisión.
SE - Asiento de válvula de escape.

Función

- Impedir que la cabeza de la válvula y el alojamiento se hundan.
- Garantizar un cierre perfecto junto con laválvula para dejar hermética la cámara de combustión.
- Asegurar la conductividad térmica para la disipación de calor de la cabeza de la válvula, pues ésta saca aproximadamente unos 80% del calor contenido a través del asiento de la misma.
- Mantener las superficies internas con coeficientes de deslizamiento elevados, para garantizar la correcta fluidez de los componentes de la mezcla.

Características indicadas en la columna de medidas
D) Diámetro exterior
d) Diámetro interior
h) Altura

a) Grados del asiento



Configuración de las páginas y códigos de artículos

1 MERCEDES-BENZ

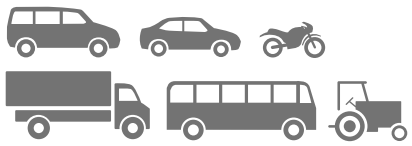
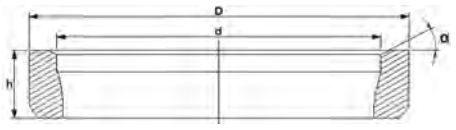
MAHLE

	Nº CIL. 3	TIPO TYPE 4	CÓD. MAHLE / METAL LEVE 5	MEDIDA 6	D x d x h 7	α 8
2 Motor OM 352A/314-L1517/18 Turbo, OM 352-L1114 No Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 352A-L1517, L1518 Turbo	6	EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
Motor OM 366 - OM 364LA Turbo Intercooler	4	IN	**SA0480112**	STD	43,87 x 34,5 x 7,5	20°
Motor OM 366 Turbo	4/6	IN	**SA0480059**	0,1	43,97 x 35 x 7,4	30°
		IN	**SA0480059**	0,2	44,07 x 35 x 7,4	30°
		IN	**SA0480059**	0,3	44,17 x 35 x 7,4	30°
		EX	**SE0480080**	0,1	38,17 x 30 x 8	45°
		EX	**SE0480080**	0,2	38,37 x 30 x 8	45°
		IN	**SA0480059**	STD	43,87 x 35 x 7,4	30°
		EX	**SE0480080**	STD	38,07 x 30 x 8	45°
Motor OM 366, OM 364 Asp. Normal y Turbo	4/6	IN	**SA0480087**	0,1	43,97 x 35 x 7,7	30°
		IN	**SA0480087**	0,5	44,37 x 35 x 7,7	30°
		EX	**SE0480038**	0,1	38,17 x 28 x 8,5	45°
		EX	**SE0480038**	0,2	38,27 x 28 x 8,5	45°
		EX	**SE0480038**	0,5	38,57 x 28 x 8,5	45°
		EX	**SE0480038**	1,00	39,07 x 28 x 8,5	45°
		EX	**SE0480038**	2,00	40,07 x 28 x 8,5	45°
		EX	**SE0480038**	STD	38,08 x 28 x 8,45	45°
		IN	**SA0480087**	STD	43,87 x 35 x 7,7	30°
Motor OM 447LA-449LA	5/6	IN	**SA0480090**	0,1	60,2 x 49,3 x 8,35	30°
		IN	**SA0480090**	STD	60,1 x 49,3 x 8,35	30°
		EX	**SE0480092**	STD	53,1 x 43 x 9,2	45°
Motor OM 501LA V6 24v., OM 502LA V8 32v., OM 457	6	IN	**SA0480070**	STD	47,39 x 36,5 x 7,8	30°
		EX	**SE0480032**	STD	43,09 x 34,3 x 8	45°
OM 355 - OM 355 O (ônibus) aspirado	5/6	EX	**SE0480044**	0,1	40,17 x 31 x 7,47	45°
		EX	**SE0480044**	0,2	40,27 x 31 x 7,47	45°
		IN	**SA0480056**	STD	51,07 x 37 x 7,47	45°
		EX	**SE0480044**	STD	40,07 x 31 x 7,47	45°
OM314 - OM352 - OM352A (Aspirado/ Turbinado)	4/6	IN	**SA0480033**	0,1	45,17 x 37 x 8,3	45°
		IN	**SA0480033**	0,2	45,27 x 37 x 8,3	45°
		IN	**SA0480033**	1,00	46,07 x 37 x 8,3	45°
			SA0480033	00	47,07 x [illegible] x 8,3	45°
						45°
OM3[illegible]						

1 Fabricante
2 Descripción del motor
Datos del Motor
Vehículos
Año de Fabricación
3 Número de cilindros
4 Función
IN = Admisión
EX = Escape
IN - EX = Común

5 Número de Artículo del asiento de Válvula
Ex.: SA 048 0033
- Número Secuencial
- Línea Motora
- SA - Asiento de válvula de admisión
- SE - Asiento de válvula de escape

6 Medidas
7 Dimensiones
8 Ángulo

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
Série B/BT - FORD F250 - F350 - F4000 / VW 12170 - 13170 - 15170 - 16170 - 17210	4/6	IN	**SA0210108**	STD	47.07 x 37.95 x 6.9	30˚
Série B/BT - FORD F250 - F350 - F4000 / VW 12170 - 13170 - 15170	4/6	EX	**SE0210107**	STD	43.73 x 34.5 x 6.72	45˚
Série C/CT/CTA/CTAA - VW 14220 - 17220 - 24220 - 26300 - 17300 - 40300 - 25250 / FORD 2630 - 4030 - 2425 - 1622 - 2422	6	IN	**SA0210071**	STD	54 x 44.5 x 8.2	30˚
		EX	**SE0210072**	STD	47.1 x 40 x 6.35	45˚
		EX	**SE0210072**	0,10	47.2 x 40 x 6.35	45˚

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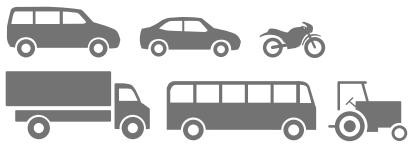
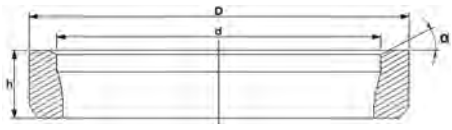
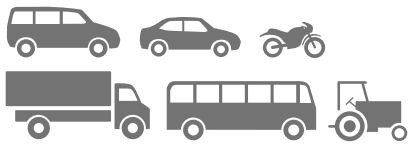
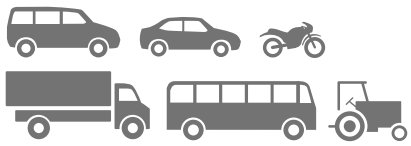
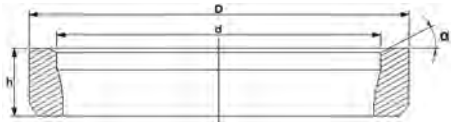
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
Motor Endura E HCS 1.0/1.3L - Ká, Fiesta	4	EX	**SE0590129**	STD	31.6 x 25.5 x 6	45˚
		EX	**SE0590129**	0,10	31.7 x 25.5 x 6	45˚
Motor 6600 (79->80) Agrícola/Veicular	3/4/6	IN	**SA0260049**	STD	48.25 x 41.8 x 6.45	45˚
		EX	**SE0260048**	STD	40.65 x 34.3 x 7.7	45˚



Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	D x d x h	α
Motor OM 364LA Intercooler	4	IN	**SA0480112**	STD	43.87 x 34.5 x 7.5	20˚
Motor OM 364A/LA - OM 366A/LA	4/6	IN	**SA0480059**	STD	43.87 x 35 x 7.4	30˚
		IN	**SA0480059**	0,10	43.97 x 35 x 7.4	30˚
		IN	**SA0480059**	0,20	44.07 x 35 x 7.4	30˚
		IN	**SA0480059**	0,30	44.17 x 35 x 7.4	30˚
		EX	**SE0480080**	STD	38.07 x 30 x 8	45˚
		EX	**SE0480080**	0,10	38.17 x 30 x 8	45˚
		EX	**SE0480080**	0,20	38.37 x 30 x 8	45˚
Motor OM 366, OM 364 Aspirado	4/6	IN	**SA0480087**	STD	43.87 x 35 x 7.7	30˚
		IN	**SA0480087**	0,10	43.97 x 35 x 7.7	30˚
		IN	**SA0480087**	0,50	44.37 x 35 x 7.7	30˚
		EX	**SE0480038**	STD	38.08 x 28 x 8.45	45˚
		EX	**SE0480038**	0,10	38.17 x 28 x 8.5	45˚
		EX	**SE0480038**	0,20	38.27 x 28 x 8.5	45˚
		EX	**SE0480038**	0,50	38.57 x 28 x 8.5	45˚
		EX	**SE0480038**	1,00	39.07 x 28 x 8.5	45˚
		EX	**SE0480038**	2,00	40.07 x 28 x 8.5	45˚
Motor OM 447LA - OM449LA	5/6	IN	**SA0480090**	STD	60.1 x 49.3 x 8.35	30˚
		IN	**SA0480090**	0,10	60.2 x 49.3 x 8.35	30˚
		EX	**SE0480092**	STD	53.1 x 43 x 9.2	45˚
Motor OM 501LA V6 24v., OM 502LA V8 32v., OM 457LA	6	IN	**SA0480070**	STD	47.39 x 36.5 x 7.8	30˚
		EX	**SE0480032**	STD	43.09 x 34.3 x 8	45˚
OM 355 - OM 355 O (Ônibus) Aspirado	5/6	IN	**SA0480056**	STD	51.07 x 37 x 7.47	45˚
		EX	**SE0480044**	STD	40.07 x 31 x 7.47	45˚
		EX	**SE0480044**	0,10	40.17 x 31 x 7.47	45˚
		EX	**SE0480044**	0,20	40.27 x 31 x 7.47	45˚
OM355 (Turbinado e Intercoolado)	5/6	IN	**SA0480079**	STD	51.07 x 37 x 7.69	30˚
		IN	**SA0480079**	0,20	51.26 x 37 x 7.69	30˚
OM314 - OM352 - OM352A (Aspirado/ Turbinado)	4/6	IN	**SA0480033**	STD	45.07 x 37 x 8.3	45˚
		IN	**SA0480033**	0,10	45.17 x 37 x 8.3	45˚
		IN	**SA0480033**	0,20	45.27 x 37 x 8.3	45˚
		IN	**SA0480033**	1,00	46.07 x 37 x 8.3	45˚
		IN	**SA0480033**	2,00	47.07 x 37 x 8.3	45˚
		EX	**SE0480038**	STD	38.08 x 28 x 8.45	45˚
		EX	**SE0480038**	0,10	38.17 x 28 x 8.5	45˚
		EX	**SE0480038**	0,20	38.27 x 28 x 8.5	45˚
		EX	**SE0480038**	0,50	38.57 x 28 x 8.5	45˚
		EX	**SE0480038**	1,00	39.07 x 28 x 8.5	45˚
		EX	**SE0480038**	2,00	40.07 x 28 x 8.5	45˚
OM314 - OM352 (Aspirado/Turbinado)	4/6	EX	**SE0480063**	STD	38.07 x 30 x 8.5	45˚
		EX	**SE0480063**	0,10	38.17 x 30 x 8.5	45˚
		EX	**SE0480063**	0,20	38.27 x 30 x 8.5	45˚
		EX	**SE0480063**	0,30	38.37 x 30 x 8.5	45˚
		EX	**SE0480063**	0,40	38.47 x 30 x 8.5	45˚
		EX	**SE0480063**	0,50	38.57 x 30 x 8.5	45˚
		EX	**SE0480063**	1,00	39.07 x 30 x 8.5	45˚
OM314 á partir Nr.132383 - OM314 - OM3140 - OM352 á partir Nr.7387373 - OM352A á partir Nr.738497	4/6	IN	**SA0480074**	STD	45.87 x 37 x 8.3	45˚
		IN	**SA0480074**	0,10	45.97 x 37 x 8.3	45˚
		IN	**SA0480074**	0,20	46.07 x 37 x 8.3	45˚
		IN	**SA0480074**	0,30	46.17 x 37 x 8.3	45˚
		IN	**SA0480074**	0,40	46.27 x 37 x 8.3	45˚

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
D225/226/229 - Agrale 7500D / Fiat Trator-Esteira FD6 - Pá Carregadeira / Trator Valmet	3/4/6	IN	**SA0130113**	STD	43.15 x 36 x 7	45˚
		IN	**SA0130113**	0,10	43.25 x 36 x 7	45˚
		IN	**SA0130113**	0,20	43.35 x 36 x 7	45˚
		EX	**SE0130029**	STD	39.1 x 33 x 7	45˚
		EX	**SE0130029**	0,10	39.2 x 33 x 7	45˚
		EX	**SE0130029**	0,20	39.3 x 33 x 7	45˚
D225/226/TD229 - Agrale 7500D / Fiat Trator-Esteira FD6 - Pá Carregadeira / Trator Valmet (TURBO) / D229EC	3/4/6	IN	**SA0130128**	STD	43.15 x 36 x 7	30˚
		EX	**SE0130111**	STD	39.1 x 33 x 7	45˚
Motor 6.10/6.10T (VW 14150 Euro I - Grupo Gerador 50 Hz - VW 16210 CO - Ford Cargo - Grupos Geradores 60/80 Hz - VW Ônibus / 15180 / 13180 - VW 17180 / 17210 / 17240 / 17290 - Ônibus 180A e 210 LA, F1000 Ano 98	4/6	IN	**SA0130085**	STD	46.15 x 38.5 x 7.2	60˚
		IN	**SA0130085**	0,10	46.25 x 38.5 x 7.2	60˚
		EX	**SE0130083**	STD	43.1 x 34.4 x 7.4	45˚
		EX	**SE0130083**	0,10	42.2 x 34.4 x 7.4	45˚

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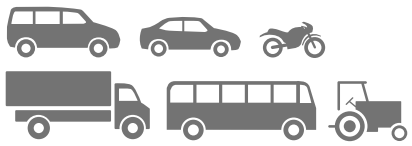

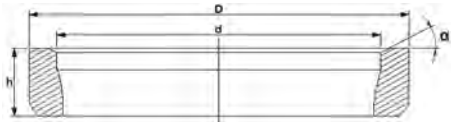

Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	D x d x h	α
4	IN	**SA0570109**	STD	42.17 x 35.5 x 8.5	45˚
	EX	**SE0570110**	STD	36.17 x 30 x 8.5	45˚
6	IN	**SA0570097**	STD	53 x 41 x 10.5	45˚
	EX	**SE0570047**	STD	47.66 x 34.86 x 9.55	45˚
4	IN	**SA0570093**	STD	48.7 x 40.7 x 6	45˚
	EX	**SE0570095**	STD	39.6 x 33 x 6	45˚
	EX	**SE0570095**	0,10	39.7 x 33 x 6	45˚
4	IN	**SA0570094**	STD	48.7 x 40.5 x 6	30˚
	EX	**SE0570095**	STD	39.6 x 33 x 6	45˚
	EX	**SE0570095**	0,10	39.7 x 33 x 6	45˚
4/6	IN	**SA0570050**	STD	51.3 x 37.9 x 7.2	45˚
	IN	**SA0570050**	0,10	51.4 x 37.9 x 7.2	45˚
	IN	**SA0570050**	0,20	51.5 x 37.9 x 7.2	45˚
	EX	**SE0570053**	STD	42.7 x 31.62 x 9.5	45˚
	EX	**SE0570053**	0,10	42.8 x 31.62 x 9.5	45˚
	EX	**SE0570053**	0,20	42.9 x 31.62 x 9.5	45˚

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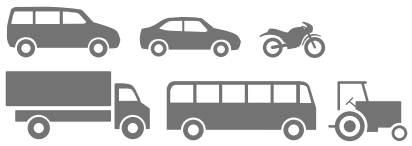
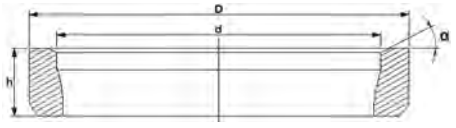
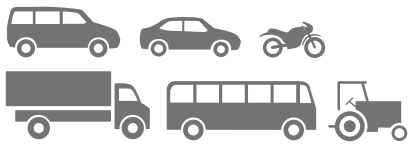
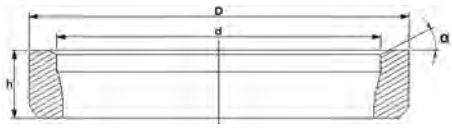
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
Motor Antigo 45° - SCANIA D-10/ DS-11 de (67->)/ D11, DS10-Turbo, DS11, L111 Turbo	6	EX	**SE0760100**	STD	52.01 x 40.65 x 10.3	45˚
		EX	**SE0760100**	0,10	52.11 x 40.65 x 10.3	45˚
		EX	**SE0760100**	0,20	52.21 x 40.65 x 10.3	45˚
Motor Antigo 20° - SCANIA D-10/ DS-11 de (67->) / DN11, DS11, L112 Turbo	6	IN	**SA0760098**	STD	56 x 47.5 x 7.4	20˚
		IN	**SA0760098**	0,50	56.5 x 47.5 x 7.9	20˚
Motor DSC-11 / 113-H / K 113 Ecológico	6	IN	**SA0760103**	STD	56.01 x 47.5 x 7.4	20˚
		EX	**SE0760104**	STD	52 x 39 x 10.3	45˚
		EX	**SE0760104**	0,10	52.1 x 39 x 10.3	45˚
		EX	**SE0760104**	0,20	52.2 x 39 x 10.3	45˚

	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
1300 - Kombi Moderna	4	EX	**SE0700116**	STD	32.14 x 26 x 8.5	
		EX	**SE0700116**	0,20	32.34 x 26 x 8.5	
		EX	**SE0700116**	0,50	32.64 x 26 x 8.5	
1600	4	IN	**SA0700120**	STD	37.14 x 31 x 8.5	45˚
		IN	**SA0700120**	0,20	37.34 x 31 x 8.5	45˚
		IN	**SA0700120**	0,50	37.64 x 31 x 8.5	45˚
		EX	**SE0700119**	STD	34.14 x 28 x 8.5	45˚
1600 Passat - Gol	4	EX	**SE0700123**	STD	33.1 x 27.5 x 7.3	45˚
1800 - 2000 Santana	4	IN	**SA0700124**	STD	39.1 x 33 x 7.8	45˚
		IN	**SA0700124**	0,20	39.3 x 33 x 7.8	45˚
		EX	**SE0700126**	STD	33.6 x 27.6 x 7.3	45˚
		EX	**SE0700126**	0,20	33.8 x 27.6 x 7.3	45˚

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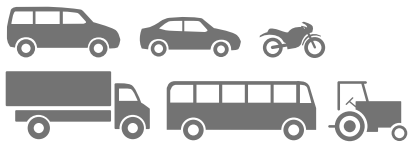
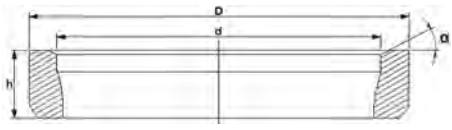
	Nº CIL.	TIPO TYPE	CÓD. MAHLE / METAL LEVE	MEDIDA	 D x d x h	α
Motor N10B - NL10 / TD100B Turbo - F88, FB88, FL88	6	IN	**SA0710058**	STD	54.06 x 44.3 x 6.7	30˚
		EX	**SE0710057**	STD	49.06 x 40 x 11.5	45˚

MAHLE	ORIGINAL	RIOSULENSE	300 INDY	LINHA MOTORA
SA0130085-STD	961003450033	23608080	A5411	MWM
SA0130085-0,10	961003450033	23608180	A5411-10	MWM
SA0130113-STD	93273450023 / 622603453033	25507080	A5422	MWM
SA0130113-0,10	-	25507180	A5422-10	MWM
SA0130113-0,20	-	25507280	A5422-20	MWM
SA0130128-STD	622603453023	25904080	A5423	MWM
SA0210071-STD	TE3-109.429	23540015	A5278	CUMMINS
SA0210108-STD	3906854	23835015	A5251	CUMMINS
SA0260049-STD	-	23521030	A5416	FORD
SA0480033-STD	3520533131	23514020	A5000	MERCEDES-BENZ
SA0480033-0,10	35820531631 / 3520532231 / 3520533131	23514120	A5000-10	MERCEDES-BENZ
SA0480033-0,20	35820531631 / 3520532231 / 3520533131	23514220	A5000-20	MERCEDES-BENZ
SA0480033-1,00	3520531631 / 3520532231 / 3520533131	23514620	A5000-100	MERCEDES-BENZ
SA0480033-2,00	3520531631 / 3520532231 / 3520533131	23514720	A5000-200	MERCEDES-BENZ
SA0480056-STD	3460530731 / 3550531131	23527020	A5005	MERCEDES-BENZ
SA0480059-STD	3660532031	23530020	A5093	MERCEDES-BENZ
SA0480059-0,10	3660532031 / 3660533531	23530120	A5093-10	MERCEDES-BENZ
SA0480059-0,20	3660532031 / 3660533531	23530220	A5093-20	MERCEDES-BENZ
SA0480059-0,30	3660532031 / 3660533531	23530320	A5093-30	MERCEDES-BENZ
SA0480070-STD	4570531631	23539020	A5372	MERCEDES-BENZ
SA0480074-STD	3520533531	23548020	A5357	MERCEDES-BENZ
SA0480074-0,10	3520533531 / 3520533831 / 352054031	23548120	A5357-10	MERCEDES-BENZ
SA0480074-0,20	3520533531 / 3520533831 / 352054031	23548220	A5357-20	MERCEDES-BENZ
SA0480074-0,30	3520533531 / 3520533831 /3520534031	23548320	A5357-30	MERCEDES-BENZ
SA0480074-0,40	3520533531 / 3520533831 / 3520534031	23548420	A5357-40	MERCEDES-BENZ
SA0480079-STD	3450530131	23549220	A5415	MERCEDES-BENZ
SA0480079-0,20	3450530131	23549220	A5415-20	MERCEDES-BENZ
SA0480087-STD	3660530931	23651020	A5003	MERCEDES-BENZ
SA0480087-0,10	3660530931 / 3660531231 / 3660531431	23651120	A5003-10	MERCEDES-BENZ
SA0480087-0,50	3660530931 / 3660531231 / 3660531431	23651520	A5003-50	MERCEDES-BENZ
SA0480090-STD	4220530131	23654020	A5279	MERCEDES-BENZ
SA0480090-0,10	4220530131 / 4470530031	23654120	A5279-10	MERCEDES-BENZ
SA0480112-STD	3660533531 / 3660533931	23990020	A5016	MERCEDES-BENZ
SA0570050-STD	70470053	23523050	A5413	PERKINS (MAXION)
SA0570050-0,10	70470053 / 33152154	23523150	A5413-10	PERKINS (MAXION)
SA0570050-0,20	70470053 / 33152154	23523250	A5413-20	PERKINS (MAXION)
SA0570093-STD	70470095	23666050	A5271	PERKINS (MAXION)
SA0570094-STD	70470094	23667050	A5270	PERKINS (MAXION)
SA0570097-STD	70470052	23775050	A5448	PERKINS (MAXION)
SA0570109-STD	70470051	23870050	A5492	PERKINS (MAXION)
SA0700120-STD	-	-	A5296	VOLKSWAGEN
SA0700120-0,20	0401014314	25618210	A5429-20	VOLKSWAGEN
SA0700120-0,50	0401014314	25618510	A5429-50	VOLKSWAGEN
SA0700124-STD	-	-	A5217	VOLKSWAGEN
SA0700124-0,20	035103431	25620210	A5427-20	VOLKSWAGEN
SA0710058-STD	467474-3	23529060	A5159	VOLVO
SA0760098-STD	289517FH001	23785035	A5052	SCANIA
SA0760098-0,50	-	23785535	A5333D-50	SCANIA
SA0760103-STD	289517	23787035	A5052	SCANIA
SE0130029-STD	922903450013	23508080	A5090D	MWM
SE0130029-0,10	932703450033	23508180	A5090D-10	MWM
SE0130029-0,20	932703450033	23508280	A5090D-20	MWM
SE0130083-STD	961003450043	23607080	A5412D	MWM
SE0130083-0,10	961003450043	23607180	A5412D-10	MWM
SE0130111-STD	922903453013	23905080	A5424D	MWM
SE0210072-STD	TE3-109.431	23541015	A5273	CUMMINS
SE0210072-0,10	3929005	23541115	A5277-10	CUMMINS
SE0210107-STD	3904105	23834015	A5252	CUMMINS

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MAHLE	ORIGINAL	RIOSULENSE	300 INDY	LINHA MOTORA
SE0260048-STD	-	23520030	A5421	FORD
SE0480032-STD	5410530432	23511020	A5368	MERCEDES-BENZ
SE0480038-STD	3520532032	23515020	A5002	MERCEDES-BENZ
SE0480038-0,10	3520530032 / 3520531232 / 3520532032	23515120	A5002-10	MERCEDES-BENZ
SE0480038-0,20	3520530032 / 3520531232 / 3520532032	23515220	A5002-20	MERCEDES-BENZ
SE0480038-0,50	3520530032 / 3520531232 / 3520532032	23515520	A5002-50	MERCEDES-BENZ
SE0480038-1,00	3520530032 / 3520531232 / 3520532032	23515620	A5002-100	MERCEDES-BENZ
SE0480038-2,00	3520530032 / 3520531232	23515720	A5002-200	MERCEDES-BENZ
SE0480044-STD	3460530532 / 3550531032	23516020	A5006	MERCEDES-BENZ
SE0480044-0,10	3460530532 / 3550531032 / 3550531832	23516120	A5006-10	MERCEDES-BENZ
SE0480044-0,20	3460530632 / 3550531032	23516220	A5006-20	MERCEDES-BENZ
SE0480063-STD	3520531532	23531020	A5094	MERCEDES-BENZ
SE0480063-0,10	3520531532 / 3520532032	23531120	A5094-10	MERCEDES-BENZ
SE0480063-0,20	3520531532 / 3520532032	23531220	A5094-20	MERCEDES-BENZ
SE0480063-0,30	3520531532 / 3520532032	23531320	A5094-30	MERCEDES-BENZ
SE0480063-0,40	3520531532	23531420	A5094-40	MERCEDES-BENZ
SE0480063-0,50	3520531532 / 3520532032	23531520	A5094-50	MERCEDES-BENZ
SE0480063-1,00	3520531532 / 3520532032	23531620	A5094-100	MERCEDES-BENZ
SE0480080-STD	3660530432-3660530132	23559020	A5096	MERCEDES-BENZ
SE0480080-0,10	3660530132 / 3660530432 / 3660531232	23559120	A5096-10	MERCEDES-BENZ
SE0480080-0,20	3660530132 / 3660530432 / 3660531232	23559220	A5096-20	MERCEDES-BENZ
SE0480092-STD	4220530032	23655020	A5280	MERCEDES-BENZ
SE0570047-STD	70470004	23517050	A5019	PERKINS (MAXION)
SE0570053-STD	33152153 / 33152139	23524050	A5023	PERKINS (MAXION)
SE0570053-0,10	33152153 / 33152139	23524150	A5023-10	PERKINS (MAXION)
SE0570053-0,20	33152153 / 33152139	23524250	A5023-20	PERKINS (MAXION)
SE0570095-STD	70470096	23668050	A5285	PERKINS (MAXION)
SE0570095-0,10	70470096	23668150	A5285-10	PERKINS (MAXION)
SE0570110-STD	33124428	23871050	A5493	PERKINS (MAXION)
SE0590129-STD	97BM6057A1A	25950030	A5443	FORD
SE0590129-0,10	97BM6057A1A	25950130	A5443-10	FORD
SE0700116-STD	0401014415	25615010	A5490	VOLKSWAGEN
SE0700116-0,20	0401014415	25615210	A5940-20	VOLKSWAGEN
SE0700116-0,50	0401014415	25615510	A5490-50	VOLKSWAGEN
SE0700119-STD	-	-	A5297	VOLKSWAGEN
SE0700123-STD	056103441A	25619010	A5311	VOLKSWAGEN
SE0700126-STD	-	-	A5218	VOLKSWAGEN
SE0700126-0,20	26103441	-	A5218-20	VOLKSWAGEN
SE0710057-STD	467475-0	23528060	A5158	VOLVO
SE0760100-STD	242672	23786035	A5053	SCANIA
SE0760100-0,10	-	23786135	A5053-10	SCANIA
SE0760100-0,20	-	23786235	A5053-20	SCANIA
SE0760104-STD	372972	23788035	A5293	SCANIA
SE0760104-0,10	-	23788135	A5293-10	SCANIA
SE0760104-0,20	-	23788235	A5293-20	SCANIA

ORIGINAL	MAHLE	RIOSULENSE	300 INDY	LINHA MOTORA
035103431	**SA0700124-0,20**	25620210	A5427-20	VOLKSWAGEN
0401014314	**SA0700120-0,20**	25618210	A5429-20	VOLKSWAGEN
0401014314	**SA0700120-0,50**	25618510	A5429-50	VOLKSWAGEN
0401014415	**SE0700116-STD**	25615010	A5490	VOLKSWAGEN
0401014415	**SE0700116-0,50**	25615510	A5490-50	VOLKSWAGEN
0401014415	**SE0700116-0,20**	25615210	A5940-20	VOLKSWAGEN
056103441A	**SE0700123-STD**	25619010	A5311	VOLKSWAGEN
242672	**SE0760100-STD**	23786035	A5053	SCANIA
26103441	**SE0700126-0,20**	-	A5218-20	VOLKSWAGEN
289517	**SA0760103-STD**	23787035	A5052	SCANIA
289517FH001	**SA0760098-STD**	23785035	A5052	SCANIA
33124428	**SE0570110-STD**	23871050	A5493	PERKINS (MAXION)
33152153 / 33152139	**SE0570053-STD**	23524050	A5023	PERKINS (MAXION)
33152153 / 33152139	**SE0570053-0,10**	23524150	A5023-10	PERKINS (MAXION)
33152153 / 33152139	**SE0570053-0,20**	23524250	A5023-20	PERKINS (MAXION)
3450530131	**SA0480079-0,20**	23549220	A5415-20	MERCEDES-BENZ
3450530131	**SA0480079-STD**	23549220	A5415	MERCEDES-BENZ
3460530731 / 3550531131	**SA0480056-STD**	23527020	A5005	MERCEDES-BENZ
3460530532 / 3550531032	**SE0480044-STD**	23516020	A5006	MERCEDES-BENZ
3460530532 / 3550531032 / 3550531832	**SE0480044-0,10**	23516120	A5006-10	MERCEDES-BENZ
3460530632 / 3550531032	**SE0480044-0,20**	23516220	A5006-20	MERCEDES-BENZ
3520533131	**SA0480033-STD**	23514020	A5000	MERCEDES-BENZ
3520531631 / 3520532231 / 3520533131	**SA0480033-1,00**	23514620	A5000-100	MERCEDES-BENZ
3520531631 / 3520532231 / 3520533131	**SA0480033-2,00**	23514720	A5000-200	MERCEDES-BENZ
3520532032	**SE0480038-STD**	23515020	A5002	MERCEDES-BENZ
3520530032 / 3520531232 / 3520532032	**SE0480038-0,10**	23515120	A5002-10	MERCEDES-BENZ
3520530032 / 3520531232 / 3520532032	**SE0480038-1,00**	23515620	A5002-100	MERCEDES-BENZ
3520530032 / 3520531232 / 3520532032	**SE0480038-0,20**	23515220	A5002-20	MERCEDES-BENZ
3520530032 / 3520531232	**SE0480038-2,00**	23515720	A5002-200	MERCEDES-BENZ
3520530032 / 3520531232 / 3520532032	**SE0480038-0,50**	23515520	A5002-50	MERCEDES-BENZ
3520531532	**SE0480063-STD**	23531020	A5094	MERCEDES-BENZ
3520531532 / 3520532032	**SE0480063-0,10**	23531120	A5094-10	MERCEDES-BENZ
3520531532 / 3520532032	**SE0480063-1,00**	23531620	A5094-100	MERCEDES-BENZ
3520531532 / 3520532032	**SE0480063-0,20**	23531220	A5094-20	MERCEDES-BENZ
3520531532 / 3520532032	**SE0480063-0,30**	23531320	A5094-30	MERCEDES-BENZ
3520531532	**SE0480063-0,40**	23531420	A5094-40	MERCEDES-BENZ
3520531532 / 3520532032	**SE0480063-0,50**	23531520	A5094-50	MERCEDES-BENZ
3520533531	**SA0480074-STD**	23548020	A5357	MERCEDES-BENZ
3520533531 / 3520533831 / 352054031	**SA0480074-0,10**	23548120	A5357-10	MERCEDES-BENZ
3520533531 / 3520533831 / 352054031	**SA0480074-0,20**	23548220	A5357-20	MERCEDES-BENZ
3520533531 / 3520533831 /3520534031	**SA0480074-0,30**	23548320	A5357-30	MERCEDES-BENZ
3520533531 / 3520533831 / 3520534031	**SA0480074-0,40**	23548420	A5357-40	MERCEDES-BENZ
35820531631 / 3520532231 / 3520533131	**SA0480033-0,10**	23514120	A5000-10	MERCEDES-BENZ
35820531631 / 3520532231 / 3520533131	**SA0480033-0,20**	23514220	A5000-20	MERCEDES-BENZ
3660530931	**SA0480087-STD**	23651020	A5003	MERCEDES-BENZ
3660530931 / 3660531231 / 3660531431	**SA0480087-0,10**	23651120	A5003-10	MERCEDES-BENZ
3660530931 / 3660531231 / 3660531431	**SA0480087-0,50**	23651520	A5003-50	MERCEDES-BENZ
3660533531 / 3660533931	**SA0480112-STD**	23990020	A5016	MERCEDES-BENZ
3660532031	**SA0480059-STD**	23530020	A5093	MERCEDES-BENZ
3660532031 / 3660533531	**SA0480059-0,10**	23530120	A5093-10	MERCEDES-BENZ
3660532031 / 3660533531	**SA0480059-0,20**	23530220	A5093-20	MERCEDES-BENZ
3660532031 / 3660533531	**SA0480059-0,30**	23530320	A5093-30	MERCEDES-BENZ
3660530432 / 3660530132	**SE0480080-STD**	23559020	A5096	MERCEDES-BENZ
3660530132 / 3660530432 / 3660531232	**SE0480080-0,10**	23559120	A5096-10	MERCEDES-BENZ
3660530132 / 3660530432 / 3660531232	**SE0480080-0,20**	23559220	A5096-20	MERCEDES-BENZ
372972	**SE0760104-STD**	23788035	A5293	SCANIA
3904105	**SE0210107-STD**	23834015	A5252	CUMMINS
3906854	**SA0210108-STD**	23835015	A5251	CUMMINS

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ORIGINAL	MAHLE	RIOSULENSE	300 INDY	LINHA MOTORA
3929005	**SE0210072-0,10**	23541115	A5277-10	CUMMINS
4220530131	**SA0480090-STD**	23654020	A5279	MERCEDES-BENZ
4220530131 / 4470530031	**SA0480090-0,10**	23654120	A5279-10	MERCEDES-BENZ
4220530032	**SE0480092-STD**	23655020	A5280	MERCEDES-BENZ
4570531631	**SA0480070-STD**	23539020	A5372	MERCEDES-BENZ
467474-3	**SA0710058-STD**	23529060	A5159	VOLVO
467475-0	**SE0710057-STD**	23528060	A5158	VOLVO
5410530432	**SE0480032-STD**	23511020	A5368	MERCEDES-BENZ
622603453023	**SA0130128-STD**	25904080	A5423	MWM
70470004	**SE0570047-STD**	23517050	A5019	PERKINS (MAXION)
70470053	**SA0570050-STD**	23523050	A5413	PERKINS (MAXION)
70470053 / 33152154	**SA0570050-0,10**	23523150	A5413-10	PERKINS (MAXION)
70470053 / 33152154	**SA0570050-0,20**	23523250	A5413-20	PERKINS (MAXION)
70470094	**SA0570094-STD**	23667050	A5270	PERKINS (MAXION)
70470095	**SA0570093-STD**	23666050	A5271	PERKINS (MAXION)
70470096	**SE0570095-STD**	23668050	A5285	PERKINS (MAXION)
70470096	**SE0570095-0,10**	23668150	A5285-10	PERKINS (MAXION)
70470052	**SA0570097-STD**	23775050	A5448	PERKINS (MAXION)
70470051	**SA0570109-STD**	23870050	A5492	PERKINS (MAXION)
922903450013	**SE0130029-STD**	23508080	A5090D	MWM
922903453013	**SE0130111-STD**	23905080	A5424D	MWM
932703450033	**SE0130029-0,10**	23508180	A5090D-10	MWM
932703450033	**SE0130029-0,20**	23508280	A5090D-20	MWM
93273450023 / 622603453033	**SA0130113-STD**	25507080	A5422	MWM
961003450033	**SA0130085-STD**	23608080	A5411	MWM
961003450033	**SA0130085-0,10**	23608180	A5411-10	MWM
961003450043	**SE0130083-STD**	23607080	A5412D	MWM
961003450043	**SE0130083-0,10**	23607180	A5412D-10	MWM
97BM6057A1A	**SE0590129-STD**	25950030	A5443	FORD
97BM6057A1A	**SE0590129-0,10**	25950130	A5443-10	FORD
TE3-109.429	**SA0210071-STD**	23540015	A5278	CUMMINS
TE3-109.431	**SE0210072-STD**	23541015	A5273	CUMMINS

RIOSULENSE	**MAHLE**	ORIGINAL	300 INDY	LINHA MOTORA
23508080	**SE0130029-STD**	922903450013	A5090D	MWM
23508180	**SE0130029-0,10**	932703450033	A5090D-10	MWM
23508280	**SE0130029-0,20**	932703450033	A5090D-20	MWM
23511020	**SE0480032-STD**	5410530432	A5368	MERCEDES-BENZ
23514020	**SA0480033-STD**	3520533131	A5000	MERCEDES-BENZ
23514120	**SA0480033-0,10**	35820531631 / 3520532231 / 3520533131	A5000-10	MERCEDES-BENZ
23514220	**SA0480033-0,20**	35820531631 / 3520532231 / 3520533131	A5000-20	MERCEDES-BENZ
23514620	**SA0480033-1,00**	3520531631 / 3520532231 / 3520533131	A5000-100	MERCEDES-BENZ
23514720	**SA0480033-2,00**	3520531631 / 3520532231 / 3520533131	A5000-200	MERCEDES-BENZ
23515020	**SE0480038-STD**	3520532032	A5002	MERCEDES-BENZ
23515120	**SE0480038-0,10**	3520530032 / 3520531232 / 3520532032	A5002-10	MERCEDES-BENZ
23515220	**SE0480038-0,20**	3520530032 / 3520531232 / 3520532032	A5002-20	MERCEDES-BENZ
23515520	**SE0480038-0,50**	3520530032 / 3520531232 / 3520532032	A5002-50	MERCEDES-BENZ
23515620	**SE0480038-1,00**	3520530032 / 3520531232 / 3520532032	A5002-100	MERCEDES-BENZ
23515720	**SE0480038-2,00**	3520530032 / 3520531232	A5002-200	MERCEDES-BENZ
23516020	**SE0480044-STD**	3460530532 / 3550531032	A5006	MERCEDES-BENZ
23516120	**SE0480044-0,10**	3460530532 / 3550531032 / 3550531832	A5006-10	MERCEDES-BENZ
23516220	**SE0480044-0,20**	3460530632 / 3550531032	A5006-20	MERCEDES-BENZ
23517050	**SE0570047-STD**	70470004	A5019	PERKINS (MAXION)
23520030	**SE0260048-STD**	-	A5421	FORD
23521030	**SA0260049-STD**	-	A5416	FORD
23523050	**SA0570050-STD**	70470053	A5413	PERKINS (MAXION)
23523150	**SA0570050-0,10**	70470053 / 33152154	A5413-10	PERKINS (MAXION)
23523250	**SA0570050-0,20**	70470053 / 33152154	A5413-20	PERKINS (MAXION)
23524050	**SE0570053-STD**	33152153 / 33152139	A5023	PERKINS (MAXION)
23524150	**SE0570053-0,10**	33152153 / 33152139	A5023-10	PERKINS (MAXION)
23524250	**SE0570053-0,20**	33152153 / 33152139	A5023-20	PERKINS (MAXION)
23527020	**SA0480056-STD**	3460530731 / 3550531131	A5005	MERCEDES-BENZ
23528060	**SE0710057-STD**	467475-0	A5158	VOLVO
23529060	**SA0710058-STD**	467474-3	A5159	VOLVO
23530020	**SA0480059-STD**	3660532031	A5093	MERCEDES-BENZ
23530120	**SA0480059-0,10**	3660532031 / 3660533531	A5093-10	MERCEDES-BENZ
23530220	**SA0480059-0,20**	3660532031 / 3660533531	A5093-20	MERCEDES-BENZ
23530320	**SA0480059-0,30**	3660532031 / 3660533531	A5093-30	MERCEDES-BENZ
23531020	**SE0480063-STD**	3520531532	A5094	MERCEDES-BENZ
23531120	**SE0480063-0,10**	3520531532 / 3520532032	A5094-10	MERCEDES-BENZ
23531220	**SE0480063-0,20**	3520531532 / 3520532032	A5094-20	MERCEDES-BENZ
23531320	**SE0480063-0,30**	3520531532 / 3520532032	A5094-30	MERCEDES-BENZ
23531420	**SE0480063-0,40**	3520531532	A5094-40	MERCEDES-BENZ
23531520	**SE0480063-0,50**	3520531532 / 3520532032	A5094-50	MERCEDES-BENZ
23531620	**SE0480063-1,00**	3520531532 / 3520532032	A5094-100	MERCEDES-BENZ
23539020	**SA0480070-STD**	4570531631	A5372	MERCEDES-BENZ
23540015	**SA0210071-STD**	TE3-109.429	A5278	CUMMINS
23541015	**SE0210072-STD**	TE3-109.431	A5273	CUMMINS
23541115	**SE0210072-0,10**	3929005	A5277-10	CUMMINS
23548020	**SA0480074-STD**	3520533531	A5357	MERCEDES-BENZ
23548120	**SA0480074-0,10**	3520533531 / 3520533831 / 352054031	A5357-10	MERCEDES-BENZ
23548220	**SA0480074-0,20**	3520533531 / 3520533831 / 352054031	A5357-20	MERCEDES-BENZ
23548320	**SA0480074-0,30**	3520533531 / 3520533831 /3520534031	A5357-30	MERCEDES-BENZ
23548420	**SA0480074-0,40**	3520533531 / 3520533831 / 3520534031	A5357-40	MERCEDES-BENZ
23549220	**SA0480079-0,20**	3450530131	A5415-20	MERCEDES-BENZ
23549220	**SA0480079-STD**	3450530131	A5415	MERCEDES-BENZ
23559020	**SE0480080-STD**	3660530432-3660530132	A5096	MERCEDES-BENZ
23559120	**SE0480080-0,10**	3660530132 / 3660530432 / 3660531232	A5096-10	MERCEDES-BENZ
23559220	**SE0480080-0,20**	3660530132 / 3660530432 / 3660531232	A5096-20	MERCEDES-BENZ
23607080	**SE0130083-STD**	961003450043	A5412D	MWM
23607180	**SE0130083-0,10**	961003450043	A5412D-10	MWM
23608080	**SA0130085-STD**	961003450033	A5411	MWM

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23608180	**SA0130085-0,10**	961003450033	A5411-10	MWM
23651020	**SA0480087-STD**	3660530931	A5003	MERCEDES-BENZ
23651120	**SA0480087-0,10**	3660530931 / 3660531231 / 3660531431	A5003-10	MERCEDES-BENZ
23651520	**SA0480087-0,50**	3660530931 / 3660531231 / 3660531431	A5003-50	MERCEDES-BENZ
23654020	**SA0480090-STD**	4220530131	A5279	MERCEDES-BENZ
23654120	**SA0480090-0,10**	4220530131 / 4470530031	A5279-10	MERCEDES-BENZ
23655020	**SE0480092-STD**	4220530032	A5280	MERCEDES-BENZ
23666050	**SA0570093-STD**	70470095	A5271	PERKINS (MAXION)
23667050	**SA0570094-STD**	70470094	A5270	PERKINS (MAXION)
23668050	**SE0570095-STD**	70470096	A5285	PERKINS (MAXION)
23668150	**SE0570095-0,10**	70470096	A5285-10	PERKINS (MAXION)
23775050	**SA0570097-STD**	70470052	A5448	PERKINS (MAXION)
23785035	**SA0760098-STD**	289517FH001	A5052	SCANIA
23785535	**SA0760098-0,50**	-	A5333D-50	SCANIA
23786035	**SE0760100-STD**	242672	A5053	SCANIA
23786135	**SE0760100-0,10**	-	A5053-10	SCANIA
23786235	**SE0760100-0,20**	-	A5053-20	SCANIA
23787035	**SA0760103-STD**	289517	A5052	SCANIA
23788035	**SE0760104-STD**	372972	A5293	SCANIA
23788135	**SE0760104-0,10**	-	A5293-10	SCANIA
23788235	**SE0760104-0,20**	-	A5293-20	SCANIA
23834015	**SE0210107-STD**	3904105	A5252	CUMMINS
23835015	**SA0210108-STD**	3906854	A5251	CUMMINS
23870050	**SA0570109-STD**	70470051	A5492	PERKINS (MAXION)
23871050	**SE0570110-STD**	33124428	A5493	PERKINS (MAXION)
23905080	**SE0130111-STD**	922903453013	A5424D	MWM
23990020	**SA0480112-STD**	3660533531 / 3660533931	A5016	MERCEDES-BENZ
25507080	**SA0130113-STD**	93273450023 / 622603453033	A5422	MWM
25507180	**SA0130113-0,10**	-	A5422-10	MWM
25507280	**SA0130113-0,20**	-	A5422-20	MWM
25615010	**SE0700116-STD**	0401014415	A5490	VOLKSWAGEN
25615210	**SE0700116-0,20**	0401014415	A5940-20	VOLKSWAGEN
25615510	**SE0700116-0,50**	0401014415	A5490-50	VOLKSWAGEN
25618210	**SA0700120-0,20**	0401014314	A5429-20	VOLKSWAGEN
25618510	**SA0700120-0,50**	0401014314	A5429-50	VOLKSWAGEN
25619010	**SE0700123-STD**	056103441A	A5311	VOLKSWAGEN
25620210	**SA0700124-0,20**	035103431	A5427-20	VOLKSWAGEN
25904080	**SA0130128-STD**	622603453023	A5423	MWM
25950030	**SE0590129-STD**	97BM6057A1A	A5443	FORD
25950130	**SE0590129-0,10**	97BM6057A1A	A5443-10	FORD

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300 INDY	MAHLE	ORIGINAL	RIOSULENSE	LINHA MOTORA
A5000	**SA0480033-STD**	3520533131	23514020	MERCEDES-BENZ
A5000-10	**SA0480033-0,10**	35820531631 / 3520532231 / 3520533131	23514120	MERCEDES-BENZ
A5000-100	**SA0480033-1,00**	3520531631 / 3520532231 / 3520533131	23514620	MERCEDES-BENZ
A5000-20	**SA0480033-0,20**	35820531631 / 3520532231 / 3520533131	23514220	MERCEDES-BENZ
A5000-200	**SA0480033-2,00**	3520531631 / 3520532231 / 3520533131	23514720	MERCEDES-BENZ
A5002	**SE0480038-STD**	3520532032	23515020	MERCEDES-BENZ
A5002-10	**SE0480038-0,10**	3520530032 / 3520531232 / 3520532032	23515120	MERCEDES-BENZ
A5002-100	**SE0480038-1,00**	3520530032 / 3520531232 / 3520532032	23515620	MERCEDES-BENZ
A5002-20	**SE0480038-0,20**	3520530032 / 3520531232 / 3520532032	23515220	MERCEDES-BENZ
A5002-200	**SE0480038-2,00**	3520530032 / 3520531232	23515720	MERCEDES-BENZ
A5002-50	**SE0480038-0,50**	3520530032 / 3520531232 / 3520532032	23515520	MERCEDES-BENZ
A5003	**SA0480087-STD**	3660530931	23651020	MERCEDES-BENZ
A5003-10	**SA0480087-0,10**	3660530931 / 3660531231 / 3660531431	23651120	MERCEDES-BENZ
A5003-50	**SA0480087-0,50**	3660530931 / 3660531231 / 3660531431	23651520	MERCEDES-BENZ
A5005	**SA0480056-STD**	3460530731 / 3550531131	23527020	MERCEDES-BENZ
A5006	**SE0480044-STD**	3460530532 / 3550531032	23516020	MERCEDES-BENZ
A5006-10	**SE0480044-0,10**	3460530532 / 3550531032 / 3550531832	23516120	MERCEDES-BENZ
A5006-20	**SE0480044-0,20**	3460530632 / 3550531032	23516220	MERCEDES-BENZ
A5016	**SA0480112-STD**	3660533531 / 3660533931	23990020	MERCEDES-BENZ
A5019	**SE0570047-STD**	70470004	23517050	PERKINS (MAXION)
A5023	**SE0570053-STD**	33152153 / 33152139	23524050	PERKINS (MAXION)
A5023-10	**SE0570053-0,10**	33152153 / 33152139	23524150	PERKINS (MAXION)
A5023-20	**SE0570053-0,20**	33152153 / 33152139	23524250	PERKINS (MAXION)
A5052	**SA0760098-STD**	289517FH001	23785035	SCANIA
A5052	**SA0760103-STD**	289517	23787035	SCANIA
A5053	**SE0760100-STD**	242672	23786035	SCANIA
A5053-10	**SE0760100-0,10**	-	23786135	SCANIA
A5053-20	**SE0760100-0,20**	-	23786235	SCANIA
A5090D	**SE0130029-STD**	922903450013	23508080	MWM
A5090D-10	**SE0130029-0,10**	932703450033	23508180	MWM
A5090D-20	**SE0130029-0,20**	932703450033	23508280	MWM
A5093	**SA0480059-STD**	3660532031	23530020	MERCEDES-BENZ
A5093-10	**SA0480059-0,10**	3660532031 / 3660533531	23530120	MERCEDES-BENZ
A5093-20	**SA0480059-0,20**	3660532031 / 3660533531	23530220	MERCEDES-BENZ
A5093-30	**SA0480059-0,30**	3660532031 / 3660533531	23530320	MERCEDES-BENZ
A5094	**SE0480063-STD**	3520531532	23531020	MERCEDES-BENZ
A5094-10	**SE0480063-0,10**	3520531532 / 3520532032	23531120	MERCEDES-BENZ
A5094-100	**SE0480063-1,00**	3520531532 / 3520532032	23531620	MERCEDES-BENZ
A5094-20	**SE0480063-0,20**	3520531532 / 3520532032	23531220	MERCEDES-BENZ
A5094-30	**SE0480063-0,30**	3520531532 / 3520532032	23531320	MERCEDES-BENZ
A5094-40	**SE0480063-0,40**	3520531532	23531420	MERCEDES-BENZ
A5094-50	**SE0480063-0,50**	3520531532 / 3520532032	23531520	MERCEDES-BENZ
A5096	**SE0480080-STD**	3660530432-3660530132	23559020	MERCEDES-BENZ
A5096-10	**SE0480080-0,10**	3660530132 / 3660530432 / 3660531232	23559120	MERCEDES-BENZ
A5096-20	**SE0480080-0,20**	3660530132 / 3660530432 / 3660531232	23559220	MERCEDES-BENZ
A5158	**SE0710057-STD**	467475-0	23528060	VOLVO
A5159	**SA0710058-STD**	467474-3	23529060	VOLVO
A5217	**SA0700124-STD**	-	-	VOLKSWAGEN
A5218	**SE0700126-STD**	-	-	VOLKSWAGEN
A5218-20	**SE0700126-0,20**	26103441	-	VOLKSWAGEN
A5251	**SA0210108-STD**	3906854	23835015	CUMMINS
A5252	**SE0210107-STD**	3904105	23834015	CUMMINS
A5270	**SA0570094-STD**	70470094	23667050	PERKINS (MAXION)
A5271	**SA0570093-STD**	70470095	23666050	PERKINS (MAXION)
A5273	**SE0210072-STD**	TE3-109.431	23541015	CUMMINS
A5277-10	**SE0210072-0,10**	3929005	23541115	CUMMINS
A5278	**SA0210071-STD**	TE3-109.429	23540015	CUMMINS
A5279	**SA0480090-STD**	4220530131	23654020	MERCEDES-BENZ

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A5279-10	**SA0480090-0,10**	4220530131 / 4470530031	23654120	MERCEDES-BENZ
A5280	**SE0480092-STD**	4220530032	23655020	MERCEDES-BENZ
A5285	**SE0570095-STD**	70470096	23668050	PERKINS (MAXION)
A5285-10	**SE0570095-0,10**	70470096	23668150	PERKINS (MAXION)
A5293	**SE0760104-STD**	372972	23788035	SCANIA
A5293-10	**SE0760104-0,10**	-	23788135	SCANIA
A5293-20	**SE0760104-0,20**	-	23788235	SCANIA
A5296	**SA0700120-STD**	-	-	VOLKSWAGEN
A5297	**SE0700119-STD**	-	-	VOLKSWAGEN
A5311	**SE0700123-STD**	056103441A	25619010	VOLKSWAGEN
A5333D-50	**SA0760098-0,50**	-	23785535	SCANIA
A5357	**SA0480074-STD**	3520533531	23548020	MERCEDES-BENZ
A5357-10	**SA0480074-0,10**	3520533531 / 3520533831 / 352054031	23548120	MERCEDES-BENZ
A5357-20	**SA0480074-0,20**	3520533531 / 3520533831 / 352054031	23548220	MERCEDES-BENZ
A5357-30	**SA0480074-0,30**	3520533531 / 3520533831 /3520534031	23548320	MERCEDES-BENZ
A5357-40	**SA0480074-0,40**	3520533531 / 3520533831 / 3520534031	23548420	MERCEDES-BENZ
A5368	**SE0480032-STD**	5410530432	23511020	MERCEDES-BENZ
A5372	**SA0480070-STD**	4570531631	23539020	MERCEDES-BENZ
A5411	**SA0130085-STD**	961003450033	23608080	MWM
A5411-10	**SA0130085-0,10**	961003450033	23608180	MWM
A5412D	**SE0130083-STD**	961003450043	23607080	MWM
A5412D-10	**SE0130083-0,10**	961003450043	23607180	MWM
A5413	**SA0570050-STD**	70470053	23523050	PERKINS (MAXION)
A5413-10	**SA0570050-0,10**	70470053 / 33152154	23523150	PERKINS (MAXION)
A5413-20	**SA0570050-0,20**	70470053 / 33152154	23523250	PERKINS (MAXION)
A5415	**SA0480079-STD**	3450530131	23549220	MERCEDES-BENZ
A5415-20	**SA0480079-0,20**	3450530131	23549220	MERCEDES-BENZ
A5416	**SA0260049-STD**	-	23521030	FORD
A5421	**SE0260048-STD**	-	23520030	FORD
A5422	**SA0130113-STD**	93273450023 / 622603453033	25507080	MWM
A5422-10	**SA0130113-0,10**	-	25507180	MWM
A5422-20	**SA0130113-0,20**	-	25507280	MWM
A5423	**SA0130128-STD**	622603453023	25904080	MWM
A5424D	**SE0130111-STD**	922903453013	23905080	MWM
A5427-20	**SA0700124-0,20**	035103431	25620210	VOLKSWAGEN
A5429-20	**SA0700120-0,20**	0401014314	25618210	VOLKSWAGEN
A5429-50	**SA0700120-0,50**	0401014314	25618510	VOLKSWAGEN
A5443	**SE0590129-STD**	97BM6057A1A	25950030	FORD
A5443-10	**SE0590129-0,10**	97BM6057A1A	25950130	FORD
A5448	**SA0570097-STD**	70470052	23775050	PERKINS (MAXION)
A5490	**SE0700116-STD**	0401014415	25615010	VOLKSWAGEN
A5490-50	**SE0700116-0,50**	0401014415	25615510	VOLKSWAGEN
A5492	**SA0570109-STD**	70470051	23870050	PERKINS (MAXION)
A5493	**SE0570110-STD**	33124428	23871050	PERKINS (MAXION)
A5940-20	**SE0700116-0,20**	0401014415	25615210	VOLKSWAGEN

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