

Operated By



WORLDWIDE STANDARDS

RIKEN®
EUROPE



MADE IN JAPAN

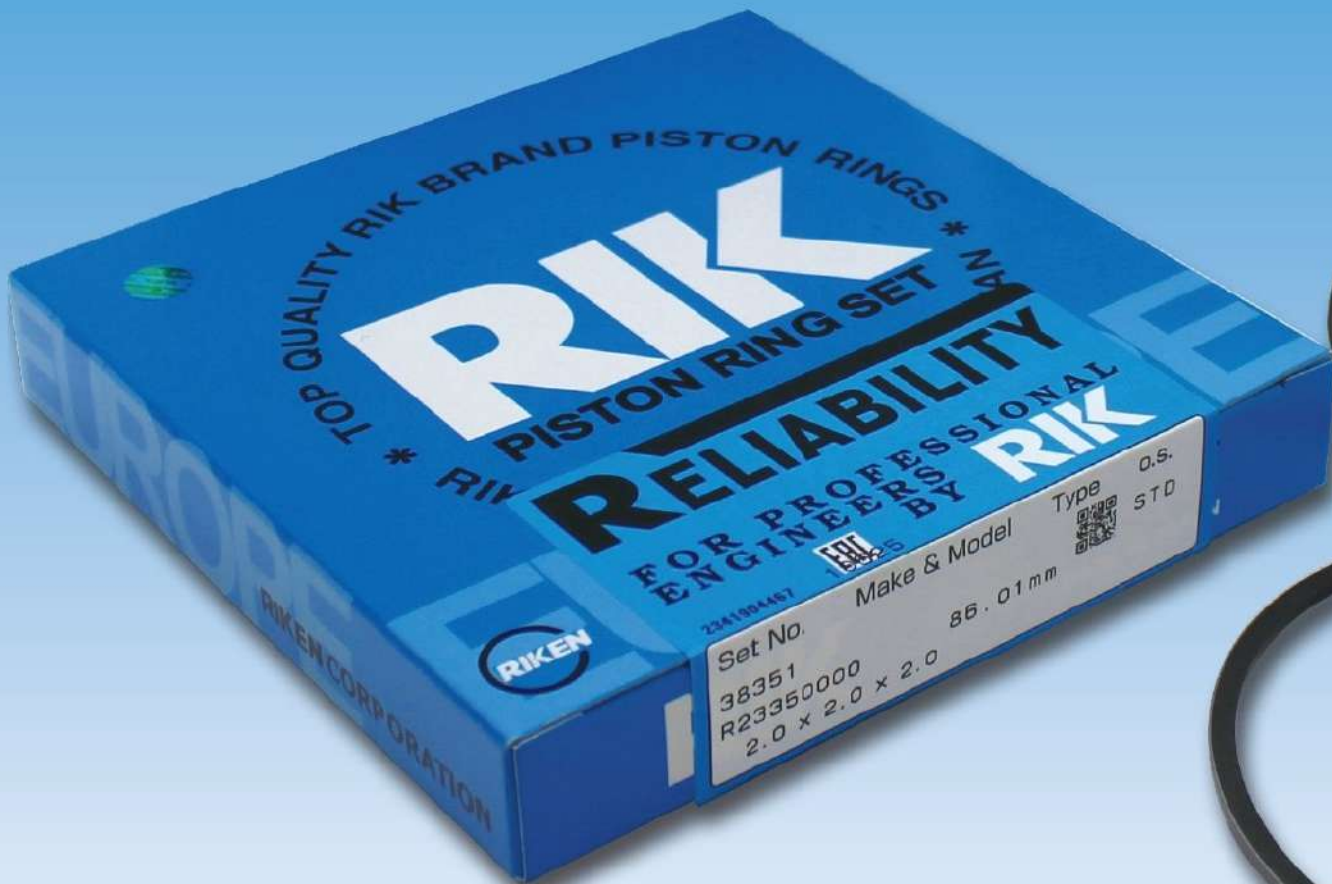
**PISTON RING SETS
SIZE LIST**

VOL.03

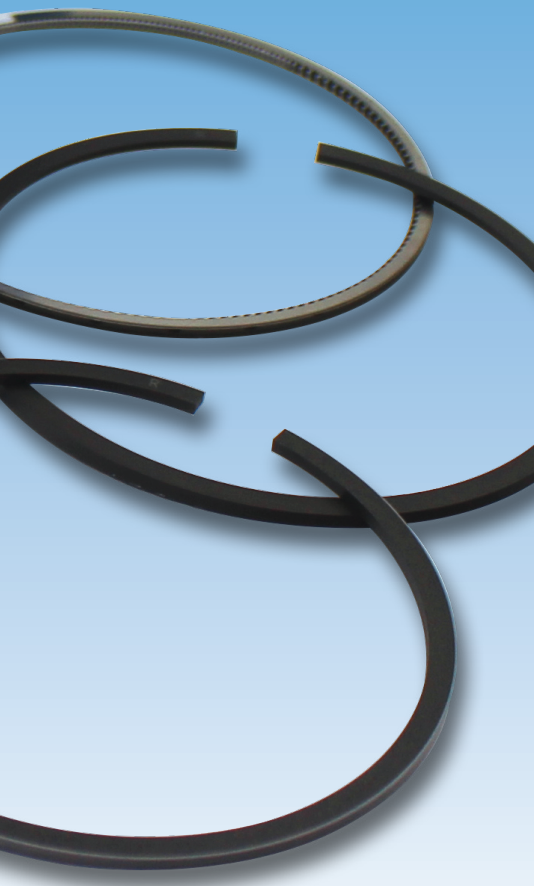


PISTON RING SETS SIZE LIST

For European Vehicles Vol.03



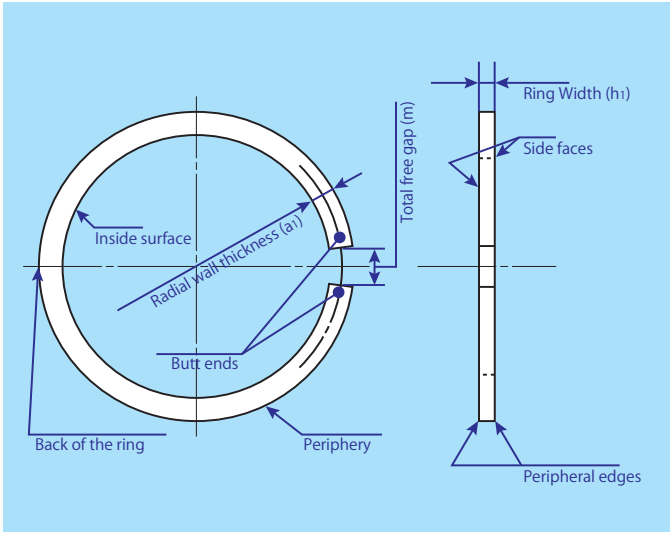
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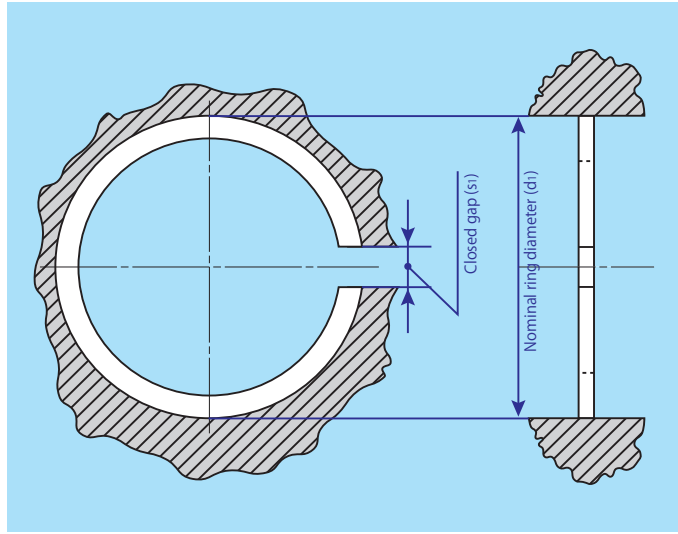
1. Automobile Piston Rings

Piston Ring Details, identification and location

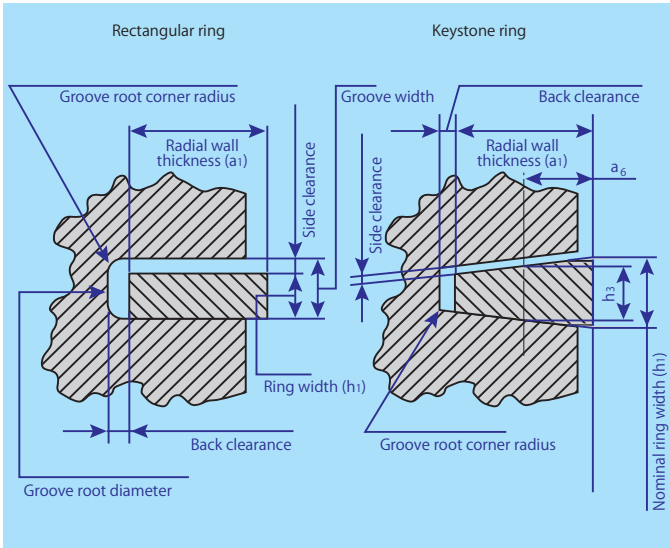
Nomenclature and symbols under free state



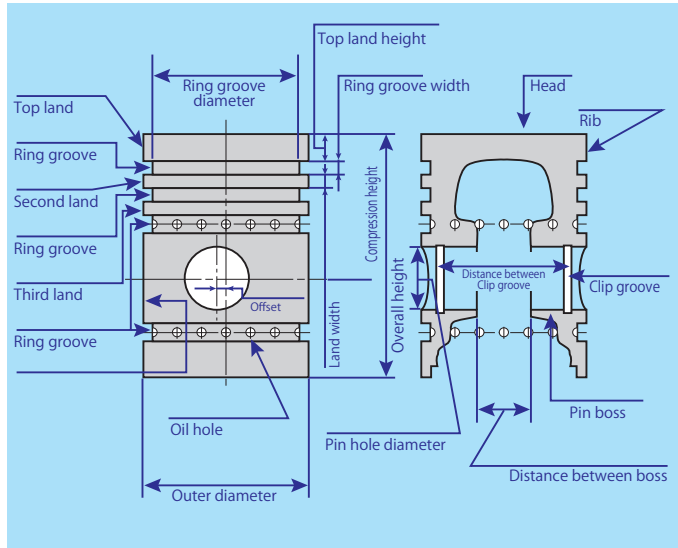
Nomenclature and symbols under mounted state



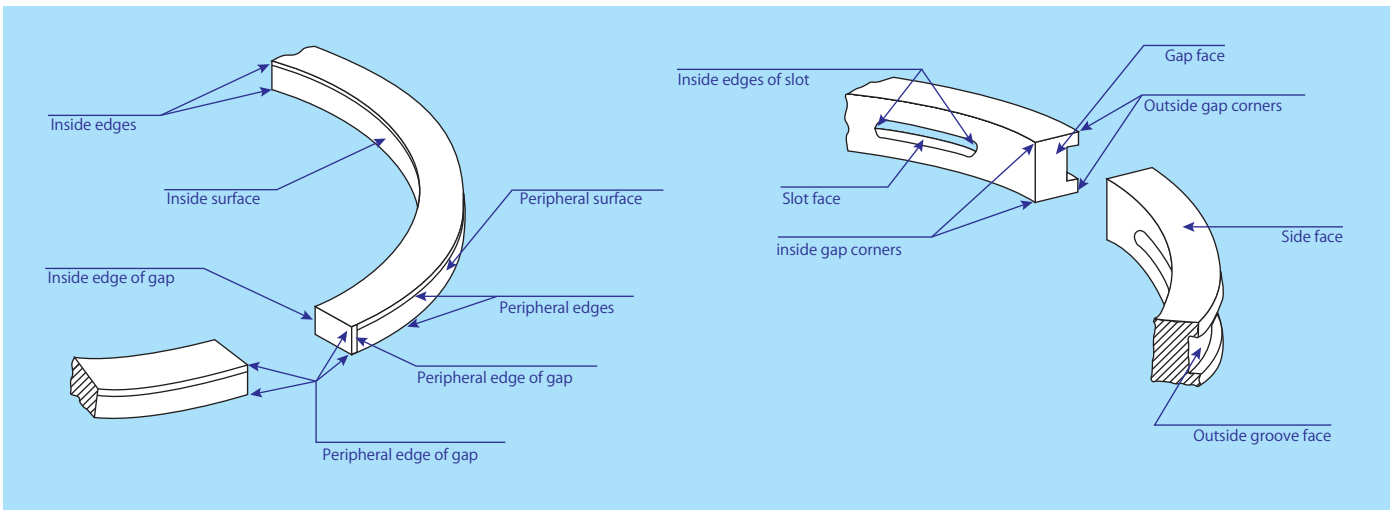
Nomenclature and symbols relating to ring cross-section and groove width



Nomenclature of parts (Piston)



Nomenclature of edges, inside and peripheral surfaces and side face



Piston Ring Surface Treatment & Configurations

1) Cross-section configurations

Top Rings			Compression Rings			Oil Rings		
500	Rectangular ring		501	Taper-faced ring		600	Slotted Oil control ring	
503	Half Keystone ring		502	Taper-faced bevelled ring		601	Bevelled-edge Oil control ring	
504	Keystone Ring (15°)		506	Scraper ring		602	Double-bevelled Oil control ring	
505	Keystone Ring (6°)		507	Scraper bevelled ring		603	Coil Spring loaded Oil control ring	
514	Keystone Ring (10°)		508	Taper-faced Napier ring		604	Coil Spring loaded Bevelled-edge Oil control ring	
			509	Taper-faced Napier bevelled ring		605	Coil Spring loaded Double-bevelled Oil control ring	
			510	Taper-faced, Half Keystone ring		700	RIK-VENT, Expander Oil control ring	
			511	Taper-faced, Keystone ring				

2) Edge and Face configurations

IF	Internal bevel top	
IFU	Internal bevel bottom	
IW	Internal step top	
IWU	Internal step bottom	
B	Barrel faced	
N	Coated Inlaid faced	

3) Coating and Material configurations

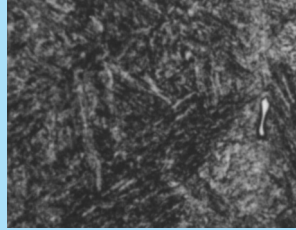
Cr	Surface chromium plating	Cpc	Ceramic Composite Plating
Cr3	Side chromium plating	IP	Ion Plating
Cr4	Full chromium plating	Fe	Ferrox treatment
Mo	Surface molybdenum plating	P	Phosphate treatment
Nit	Nitriding	S	Steel material
PI	Plasma spray coating		

Main Structural Materials for Piston Ring

STEEL

RIK-SP is a steel selected and improved as material suitable for piston rings. It is used to produce compression rings for small high speed engines and side rails for combination oil rings. It is also used for high-performance oil ring [DIESELVENT-M] for diesel engines. RIK-SS is easy to form, excellent in spring characteristics and highly resistive to permanent set in thermal fatigue. It is widely used for combination oil ring [RIKVENT] spacer in various engine versions.

Piston Ring Surface

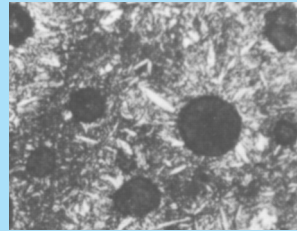


STEEL
RIK SP-5

HI-RIK

HI-RIK is a high elastic material and it shows a modulus of elasticity of 147 to 167 GPa which is close to steel modulus of elasticity 196 GPa. The reason for this is that the configuration of graphite (nodular and tempered) shows low notch effect. It has excellent wear resistance which is top ranked among currently available cast iron types.

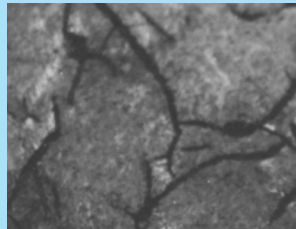
HI-RIK is suitable for such applications as automobiles, vessels, construction equipment, aircraft which require high modulus of elasticity and break-resistance.



HI-RIK
RIK-20A

RIK-S

RIK-S is a tough cast iron provided with excellent physical and mechanical properties by a special refining process without addition of any alloying element. It offers adequate elastic modulus and hardness, is easy to break in and is relatively high in shock resistance.




RIK-S
RIK-42A

×400%

RIKEN®
EUROPE

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

DODGE

ENR, ENS	2777	• Nitro 2.8 CRD	4	120-130 (163-177)	94,000	2,500 1,500 2,000		504 501 604	Cr P IW P Nit S	R04 000 000 R04 000 050	STD 0,50

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	




























● ALFA ROMEO

199 B1.000	1248	• MITO 1.3 JTDM	4	70 (95)	69,600	1,500 1,500 2,000		500 501 604	Cr P P Nit S	R11 320 000 R11 320 040 R11 320 060	STD 0,40 0,60
	1290	• Spider, Giulia Giulietta Sprint	4	74-78 (100-105)	74,000	1,500 1,750 4,000		500 508 700	CrB Fe S IF P Cr P S	R11 300 000	STD
105.02, 105.14 105.26	1570	• Giulia 1600	4	68/72/76 (92/98)	78,000	1,500 1,750 4,000		500 508 605	CrB Fe S IF P P	R11 040 000	STD
116.00	1570	• Alfetta 1600, Giulietta 1600		79.5 (108)							
940 A3.000	1598	• JTDM Giulietta 1.6	4	77 (105)	79,500	1,500 1,500 2,000		500 508 604	Cr P P Nit S	R11 310 000 R11 310 040	STD 0,40
	1996	• 164 2.0i V6 GTv 2.0i V6	6		80,000	1,500 1,500 3,500		500 508 603	Cr S IF P Fe	R11 150 000	STD
AR 00548, AR 01608 AR 01668, AR 01678 AR 06202	1779	• GT V 1750, Spider 1750, Alfetta 1.8, Giulietta 1.8, 75 1.8, 90 1.8	4	83-90 (113-132)	80,000	1,500 1,750 4,000		500 508 700	Cr S IF P Cr S P	R11 000 000 R11 000 040 R11 000 060	STD 0,40 0,60
AR 30102 /-S, AR 30104, AR 30500 AR 31000	1186	• Alfasud, Super 1.2		50 (68)							
AR 30164, AR 30168 AR 30502, AR 30586 AR 30587, AR 30753 AR 30755, AR 31010 AR 33501	1351	• Alfasud 1.3, Alfasud 1.4, Arna 1.3, 33 1.3, 33 1.4, 146, 146 1.4		55-66 (75-89)							
1.8 IE	1779	• 75 1.8 IE	4	89 (120)	80,000	1,500 1,750		500 508	Cr S IF Fe	R11 160 000 R11 160 040	STD 0,40
2.0 IE	1996	• 90 2.0 IE V6, Alfa 6-GTV	6			3,500		603	Fe	R11 160 060	0,60
116 747	1370	• 145, 146, 147, 156	4	76 (103)	82,000	1,200 1,200 2,000		500 508 700	Nit S P Nit S	R11 210 000 R11 210 040 R11 210 060	STD 0,40 0,60
AR 32103, AR 32104, AR 37203	1598	• 147 1.6 16v T.Spark 156 1.6 16v T.Spark		76-88 (103-120)							
AR 32201, AR 32205, AR 328401, AR 57106	1747	• 145 1.8 IE, 146 1.8 IE 155 1.8 16v T.Spark 156 1.8 16v T.Spark		103-106 (140-144)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● ALFA ROMEO

AR 33503, AR 38501 M 659 AA	1370	• 145 1.4 16v T.Spark, 146 1.4 16v T.Spark	4	76 (103)	82,000	1,500		500	Cr P	R11 080 000 R11 080 040 R11 080 060	STD
	M 646 BA, M 654 CA, M 654 BA	1598	• 145 1.6 16v, 146 1.6 16v, 155 1.6 16v, 156 1.6 16v	88 (120)		1,500		508	P		0,40
	M 646 GA, M 646 LA M 646 VA	1747	• 145 1.8 16v, 146 1.8 16v, 155 1.8 16v, 156 1.8 16v	103-107 (140-145)		3,000		604	P		0,60
AR 32302 186-230	1910	• 147 JTD, 156 JTD		73 (100)	82,000	2,000		500	Cr S	R11 220 000	STD
188 A3.000	1910			2,000			508	P			
				3,000			604	Cr			
AR 37101	1910	• 156 1.9 JTD	4	73-103 (100-140)	82,000	2,500		500	Cr S	R11 230 000	STD
839 A600, 841 C000 AR 36202	2387	• 156 JTD, 166 JTD	5	100-110 (136-150)		2,000		508	P		
				2,000			604	Nit S			
AR 32302	1910	• 145, 146, 156 JTD	4	77 (105)	82,000	3,000		504	Cr S	R11 240 000 R11 240 060	STD
AR 32501, AR 34202	2387	• 156 2.4 JTD, 166 2.4 JTD	5	100		2,000		501	FE IFU		0,60
				3,000			604	Cr P			
932 A2000, 937 A1000, AR 32310, AR 36301, AR 36310	1970	• 147, 156, 166 2.0 16v GT 2.0 JYS, Spider 2.0	4	119-122 (162-166)	83,000	1,200		500	Nit S IF	R11 250 000	STD
				1,200			508	P			
				2,000			700	Nit S			
M 647CA.19.T /-AR M 647DA.19.T M 647HA.19.T M 647LA.19.T	1970	• GTV 2.0 16v Ts, Spider 2.0i 16v Ts 145 2.0i 16v Ts Quad / ti 146 2.0i 16v Ts ti 155 2.0i 16v Ts, 156 2.0 16v Twin Spark	4	110-121 (150-165)	83,000	1,200		500	Nit S IF	R11 090 000 R11 090 040 R11 090 060	STD
				1,500			501	P	0,40		
				3,000			700	Cr P S	0,60		
939 B4.000 940 A8.000	1956	• 159 Sportwagon 2.0 JTDM Giulietta 2.0 JTDM	4	100 (136)	83,000	1,500		500	Cr P	R11 330 000 R11 330 050	STD
940 A5.000	1956	• Giulietta 2.0 JTDM	4	103 (140)		1,500		508	P		0,50
844 A2.000 940 A7.000	1956	• 159 Sportwagon 2.0 JTDM Spider 2.0 JTDM Giulietta 2.0 JTDM	4	120 (163)		2,000		604	Nit S		
939 B3.000	1956	• 159 Sportwagon 2.0 JTDM Spider 2.0 JTDM Giulietta 2.0 JTDM	4	125 (170)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
M 620AG.18.C	1748	• 155 1.7, Twin Spark	4	93-95 (126-129)	83,400	1,500		500	Cr S IF	R11 100 000 R11 100 040 R11 100 060	STD
						1,500		501	P		0,40
						3,500		700	Cr S		0,60
M 620CA.18.A	1773	• 155 Twin Spark	4	95 (129)	84,000	1,500		500	Cr S IF	R11 030 000 R11 030 040 R11 030 060	STD
						1,500		508	P		0,40
						3,500		604	P		0,60
AR 06416, AR 06420, AR 64103, AR 06166 AR 06224	1962	• 164 2.0 Twin Spark 75 2.0 Twin Spark	4	104-107 (142-146)							
M 620CA.20.A	1995	• 155 Twin Spark	4	105 (143)							
AR 672.03	1995	• 155 2.0 Turbo 16v	4	110 (150)	84,000	1,500		500	Cr S IF	R11 110 000 R11 110 040 R11 110 060	STD
					1,500		508	P	0,40		
					3,000		700	Nit S	0,60		
A 195.17, 116.133	1962	• 2000 Berlina, Alfetta 2000 GTV 2000, Spider	4	82-90 (110-122)	84,000	1,500		500	Cr S IF	R11 020 000 R11 020 040 R11 020 060	STD
					1,750		508	P	0,40		
					4,500		603	P	0,60		
301.28	1490	• Alfasud, Alfa 33, Sprint T1 1.5 Sprint Veloce	4	62-77 (85-105)	84,000	1,500		500	NitB S IF	R11 010 000 R11 010 040 R11 010 060	STD
					1,750		508	P	0,40		
					4,000		700	Cr P S	0,60		
116.55	1962	• Alfetta 2.0 IE, Spider 2.0 IE 90 2.0 IE	4	94 (128)	84,000	1,500		500	Cr S IF	R11 120 000 R11 120 040 R11 120 060	STD
					1,750		508	P	0,40		
					3,500		604	P	0,60		
AR 30550, AR 30058 AR 30736, AR 30737 AR 30746, AR 30747 AR 33401	1712	• 33 1.7 IE 16v 145 1.7 IE 16v	4	77-101 (105-137)	87,000	1,500		500	Cr S IF	R11 260 000	STD
1,750							508	Fe			
3,000							604	Cr S			
M 300BA.17.A M 690AA.17.C M 691AA.17.A		• Sprint, 33, 33 16v									
AR 32401, AR 32405 AR 34201, AR 36201	2492	• 155, 156, 166 / 2.5 V6 24v	6	121 (165)	88,000	1,200		500	Nit S IF	R11 270 000	STD
1,500							508	P			
3,500							604	Cr			
M 652AB.25.T		• 155, 156, 166									
M 652BA.25.T	2492	• 155, 156, 166, Alfa 6, 90, 75	6	110-140 (156-190)	88,000	1,500		500	Cr S IF	R11 130 000	STD
					1,500		508	P			
					3,500		604	Cr			

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● ALFA ROMEO

AR 32401, AR 32402 AR 34201, AR 36201 AR 32405	2492	• 75, 90	6	110-122 (156-166)	88,000	1,500 1,750 4,000		500 508 700	Cr S IF Fe Cr S	R11 140 000	STD
HR 488 HT/2 VM 80A	1994	• 75, Alfetta, Giulietta	4	60-70 (82-95)	88,000	2,500 2,000 4,000		504 508 604	Cr P Cr	R11 050 000	STD
HR 588 HT/2	2492	• Alfa 6 2.5 TD	5	77							
HRT 392	1779	• 33	3	54 (74)	92,000	2,500 2,000 4,000		504 508 604	Cr P Cr	R11 060 000	STD
HR 492 HI / HT	2392	• 90 2.4, Alfetta 2.4	4	70-81 (95-110)							
HR 92.4 S-H	2500	• 164	4	84/86 (114/117)							
932	3177	• 156	6	184 (250)	93,000	1,200 1,200 2,000		500 501 604	NitB S P Nit S	R11 280 000	STD
AR 16102, AR 16105 AR 34301, AR 36101	2959	• 166, GTV, Spider 3.0 V6 24v	6	162 (220)	93,000	1,200 1,500 3,500		500 501 604	Nit S IF P P	R11 290 000	STD
M 624AB.30.A M 627AA.30.C	2959	• 75, 164 164 OV, RZ 164 Super, Zagato	6	136-169 (185-230)	93,000	1,500 1,500 3,500		500 501 700	Cr S P Cr S	R11 070 000 R11 070 040 R11 070 060	STD 0,40 0,60
8140.61	2445	• 30 AR8, 32 AR8 35 AR8, 40 AR8	4	53 (72)	93,000	2,000 2,000 4,000		500 508 604	Cr IF P Cr P	R11 170 000 R11 170 040 R11 170 060	STD 0,40 0,60
8140.21	2445	• 40 AR8 T	4	68 (92)	93,000	3,000 2,000 3,000		504 501 604	Cr P P Cr P	R11 180 000 R11 180 040 R11 180 060	STD 0,40 0,60
8144.67	2500	• 10 AR6, 14 AR6	4	55 (75)	93,000	3,000 2,000 3,000		500 508 604	Cr Fe Cr	R11 190 000 R11 190 040 R11 190 060	STD 0,40 0,60
8140.61	2445	• 30 AR8, 35 AR8, 40 AR8	4	53 (72)	93,000	3,000 2,000 4,000		500 508 604	Cr P Cr	R11 200 000 R11 200 040 R11 200 060	STD 0,40 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
801	1093	• Audi 50 LS / GL	4	44 (60)	69,500	1,750 2,500 4,000		500 508 605	CrB IF P P	R12 000 000 R12 000 050 R12 000 100	STD 0,50 1,00
HB, HD	1093	• Audi 50 LS / GL	4	37/38 (50/52)	69,500	1,750 2,000 4,000		500 508 603	Cr IF P P	R12 010 000 R12 010 050 R12 010 100	STD 0,50 1,00
ZA, ZF, EP 801, YJ, ZB, ZC	1272 1470	• Audi 50, 80 • Audi 80 L	4	40-63 (55-86)	75,000	2,000 2,500 4,000		500 508 700	CrB Fe S P Cr P S	R12 020 000 R12 020 050 R12 020 100	STD 0,50 1,00
EP	1296	• Audi 80 1.3	4	44 (60)	75,000	1,500 1,750 3,000		500 501 700	CrB Fe S IF P Cr P S	R12 030 000 R12 030 050 R12 030 100	STD 0,50 1,00
ANY CN, CR, CK DE, NC	1191 1588 1986	• A2 • Audi 80, 90, 100 • Audi 100	3 4 5	45 (61) 45-51 (54-75) 75 (102)	76,510	1,750 2,000 3,000		500 501 604	CrB Fe S P IFU Cr	R12 040 000 R12 040 050 R12 040 100	STD 0,50 1,00
CY, RA, SB DE, NC	1588 1986	• Audi 80, 90 • Audi 100	4 5	51-59 (70-80) 64-75 (87-102)	76,510	1,750 2,000 3,000		500 501 604	CrB Fe S Cr IFU Cr	R12 100 000 R12 100 050 R12 100 100	STD 0,50 1,00
AUA, BBY BAG	1390 1598	• A2 1.4 • A3	4	55 (75) 85 (115)	76,510	1,200 1,500 2,500		500 508 700	NitB S IF P Cr P S	R12 060 000 R12 060 050 R12 060 100	STD 0,50 1,00
AFB, AKN	2496	• A8		110 (150)	78,310	1,750 2,000 3,000		500 501 604	Cr P P IFU Cr P	R12 260 000 R12 260 050 R12 260 100	STD 0,50 1,00
AFB	2496	• A4 2.5 TDI, A6 2.5 TDI A8 2.5 TDI	6	110 (150)	78,310	2,500 2,000 3,000		500 501 604	Cr IF P IFU Cr	R12 200 000 R12 200 050 R12 200 100	STD 0,50 1,00

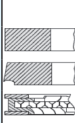
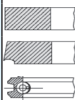
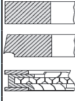

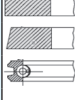
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

AUDI

AKF	2496	<ul style="list-style-type: none"> A4 3.0 TDI quattro A6 3.0 TDI quattro A8 3.0 TDI quattro 	6	150-204 (171-233)	78,310	2,000		505	Nit S	R12 110 000 R12 110 050	STD		
						2,000		501	P IFU		0,50		
	3328	<ul style="list-style-type: none"> A8 	8	165 (224)		3,000		604	Cr				
ATL, BHC	1422	<ul style="list-style-type: none"> A2 	3	55 (75)	79,510	1,750		500	CrB Fe S	R12 050 000 R12 050 050 R12 050 100	STD		
1Y, 1Z, AAZ, AFN, AHF AHH, AHU, ALH, AJM ASV, ASZ, ATD, ATJ AVB, AVF, AWX, AXR BKC	1896	<ul style="list-style-type: none"> Audi 80, A3, A4, A6 	4	47-96 (64-131)			2,000		501		P IFU	0,50	
							3,000		604		Cr	1,00	
AAS, 3D	2370	<ul style="list-style-type: none"> Audi 100 	5	60 (82)									
YJ	1457	<ul style="list-style-type: none"> Audi 80 	4	51 (70)	79,510	1,750		500	CrB Fe S IF	R12 070 000 R12 070 050 R12 070 100	STD		
827, WV, WY, WZ, YN YG, YH, YK, YM, YV YP, YT, YS, YZ	1588	<ul style="list-style-type: none"> Audi 80, 100, 4000, 5000 	4	55-81 (75-110)			2,000		508		P	0,50	
							4,000		700		Cr P S	1,00	
ZV	1716	<ul style="list-style-type: none"> Audi 100, 4000 	4	59 (80)									
WH, WN	1921	<ul style="list-style-type: none"> Audi 80, 100 	5	73-84 (100-115)									
KJ, WJ, WS, WB, WD WE, WC, KK, KE, WR	2144	<ul style="list-style-type: none"> Audi 80, 100, 200 4000, 5000, Quattro 	5	79-147 (107-200)									
CLHA CRKB	1598	<ul style="list-style-type: none"> A3 1.6 TDI A3 Sportback 1.6 TDI 	4	77-81 (105-110)	79,510	1,750		500	Cr P	R12 320 000 R12 320 050	STD		
						2,000		501	P IF		0,50		
						2,000		604	Nit S				
AHL, ALZ, ANA, ARM AVU, BFQ, BGU, BSE BSF	1595	<ul style="list-style-type: none"> A3, A4 	4	75 (102)	81,010	1,000		500	NitB S	R12 150 000 R12 150 050 R12 150 100	STD		
						1,200		508	P		0,50		
						2,000		700	Nit S		1,00		
ADP, AEH, AHL, AKL ARM	1595	<ul style="list-style-type: none"> A3, A4 	4	74-75 (100-101)	81,010	1,200		500	NitB S IF	R12 190 000 R12 190 050 R12 190 100	STD		
						1,500		508	P		0,50		
						2,000		700	Nit S		1,00		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● AUDI

AML, APS, APZ, ARJ AGA, AJG, ALF, ALW AMM, ARN, ASM BDV, BDW	2393	• A4, A6	6	100-125 (136-170)	81,010	1,500 1,500 2,000		500 508 700	Cr S IF P Nit S	R12 210 000 R12 210 050 R12 210 100	STD 0,50 1,00
ABM, JU, DT	1595	• Audi 80	4	52-55 (71-75)	81,010	1,500 1,750 3,000		500 508 604	Cr B S IF P Cr	R12 080 000 R12 080 050 R12 080 100	STD 0,50 1,00
DS, DZ, JV, KP, NE, DR RU, JN, MG, PM, SF	1781	• Audi 80, 90, 100, 4000, Fox		66-82 (90-112)							
JS, KP, PS, RT	1994	• Audi 80, 90, 100, Coupe	5	85 (116)							
1B, MB, 3B, RR, AAN ABY, ADU, JT, KM, KU KX	2226	• Audi 80, 90, 100, 4000, 5000 RS2		77-162 (105-220)							
ABM, JU, DT	1595	• Audi 80	4	52-55 (71-75)	81,010	1,500 1,750 3,000		500 508 700	Cr B S IF P Cr P S	R12 090 000 R12 090 050 R12 090 100	STD 0,50 1,00
DS, DZ, JV, KP, NE, DR RU, JN, MG, PM, SF	1781	• Audi 80, 90, 100, 4000, Fox		66-82 (90-112)							
JS, KP, PS, RT	1994	• Audi 80, 90, 100, Coupe	5	85 (116)							
1B, MB, 3B, RR, AAN ABY, ADU, JT, KM, KU KX	2226	• Audi 80, 90, 100, 4000, 5000 RS2		77-162 (105-220)							
ADR, AEB, AFY, AJL ARK, AGN, AGU, AJP AMB, AMK, APG, APP APX, APY, AQE, ARH ARG, ARX, ARY, AUL AUM, AUQ, AVJ, AVV AWT, BAM, BEX	1781	• A3, A4, TT, A6, S3	4	92-165 (125-225)	81,010	1,500 1,750 2,000		500 508 700	Cr B Fe S IF Fe Nit S	R12 220 000 R12 220 050 R12 220 100	STD 0,50 1,00
AGB, AZB	2681	• A6, S4	6	195 (265)							
1T, AAT, ABP, AEL	2461	• Audi 100, A6	5	85-103 (115-140)	81,010	2,500 2,000 3,000		500 501 604	Cr P P Cr P	R12 120 000 R12 120 050 R12 120 100	STD 0,50 1,00




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● AUDI

AZV, BKD, BLB, BMM BMN, BNA, BPW, BRF BVG	1968	• A3, A4, A6	4	89-125 (121-170)	81,010	1,750		500	CrB Fe S IF	R12 130 000 R12 130 050 R12 130 100	STD
						2,000		508	P		0,50
						3,000		604	Cr P		1,00
SD	1847	• Audi 80, Quattro	4	83 (113)	82,500	1,500		500	CrB Fe S IF	R12 140 000 R12 140 050 R12 140 100	STD
AAR, NG, NF	2309	• Audi 100, A6, Quattro	5	98 (133)		1,750		508	P		0,50
						3,000		700	Cr P S		1,00
ABC, ACZ	2597	• Audi 80, 100, A4, A6	6	102-110 (139-150)							
AAD, AAE, ABK, ABT ACE, ALT	1984	• Audi 80, 100, A4, A6	4	66-95 (90-129)	82,500	1,200		500	NitB S IF	R12 160 000 R12 160 050 R12 160 100	STD
						1,500		501	P		0,50
						2,000		700	Cr P S		1,00
AXX, BWA,	1998	• A3, TT	4	147 (200)							
AAH, CK, AEJ, AFC ALG, AGE, AMX, APR AQD, ATX, AXX, BWA	2771	• A3, A4, A6, A8, TT	6	120-147 (163-200)							
ASN, BBJ	2976	• A4, A6	6	160-162 (218-220)							
3A	1984	• Audi 80, 90	4	85 (116)	82,500	1,500		500	Cr S IF	R12 170 000 R12 170 050 R12 170 100	STD
						1,500		501	P IF		0,50
						2,000		700	Cr P S		1,00
7A	2309	• Audi 90, Coupe, Quattro	5	125 (170)	82,500	1,200		500	NitB S IF	R12 180 000 R12 180 050 R12 180 100	STD
						1,750		508	P		0,50
						3,000		700	Cr P S		1,00






Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● AUDI

CCDA, CDHA CDHB	1798	• TT Roadster 1.8 TFSI	4	88-118 (120-160)	82,510	1,200		500	NitB S IF	R12 310 000 R12 310 050	STD 0,50
		A4 1.8 TFSI, A4 Avant 1.8 TFSI						508	P		
		A4 Quattro 1.8 TFSI						700	Nit S		
		A4 Avant Quattro 1.8 TFSI									
		A5 1.8 TFSI									
		A5 Cabriolet 1.8 TFSI									
		A5 Sportback 1.8 TFSI									
CNSB	1798	• A3 Cabriolet 1.8 TFSI	4	125 (170)							
CJSA, CJSB	1798	• A3 1.8 TFSI	4	132 (180)							
		A3 Cabriolet 1.8 TFSI									
		A3 Sportback 1.8 TFSI									
		A3 Quattro 1.8 TFSI									
		A4 Cabriolet Quattro 1.8 TFSI									
CCZA	1984	• A3 2.0 TFSI	4	147 (200)							
		A3 Cabriolet 2.0 TFSI									
		A3 Sportback 2.0 TFSI									
CDNB	1984	• A4 2.0 TFSI	4	132 (180)							
		A5 Cabriolet 2.0 TFSI									
		Q5 2.0 TFSI, A6 2.0 TFSI									
		A6 Avant 2.0 TFSI, A5 2.0 TFSI									
CYP CHHC	1984	• A7 Sportback 2.0 TFSI	4	169-185 (230-252)							
		TT Coupe 2.0 TFSI									
		TT Roadster 2.0 TFSI									
CWZA	1984	• A1 S1 Quattro	4	170 (231)							
















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

AUDI

BYT CABA, CABB CABD, CDHA ALT BZB, CAWB CDLA, CDMA CDLB, CDLC CDLH CEPA, CEPB ASN BBJ	1798	• A3 1.8 TFSI	4	118 (160)	82,510	1,200 1,500 2,000		500 508 604	NitB S IF P Nit S	R12 330 000 R12 330 050	STD 0,50
	1798	• A4 1.8 TFSI, A4 Avant 1.8 TFSI A5 Cabriolet 1.8 TFSI	4	88-125 (120-170)							
	1984	• A4 2.0, A4 Avant 2.0, A6 2.0 A4 Cabriolet 2.0, A6 Avant 2.0	4	96 (130)							
	1984	• A3 Sportback 2.0 TFSI A3 Cabriolet 2.0 TFSI	4	147 (200)							
	1984	• TT 2.0 Quattro A3 Sportback S3 Quattro TT 2.0 TFSI Quattro A1 2.0 TFSI Quattro	4	188-200 (256-272)							
	2480	• TT 2.5 TFSI Quattro A3 Sportback RS3 Quattro	4 5	250 (265)							
2976	• A4 3.0, A4 Avant 3.0 A4 Avant 3.0 Quattro, A4 3.0 A4 3.0 Quattro, A4 Avant 3.0	6	160-162 (218-220)								
CNSB CHHC CWZA	1798	• A3 Cabriolet 1.8 TFSI A3 Limousine 1.8 TFSI	4	125 (170)	82,510	1,200 1,200 2,000		500 508 604	NitB S IF P Nit S	R12 340 000 R12 340 050	STD 0,50
	1984	• TT Coupe 2.0 TFSI TT Roadster 2.0 TFSI TT Roadster 2.0 TFSI Quattro A1 S1 Quattro A1 Sportback S1 Quattro	4	169-170 (230-231)							
CDN DOHC	1984	• A4 2.0 USA	4		82,510	1,000 1,200 1,500		500 501 700	CrB S P IFU Cr P S	R12 350 000 R12 350 050	STD 0,50
3L	2967	• A4, A6 3.0 TDI	6	171 (233)	83,000	1,750 2,000 3,000		500 501 604	Cr S Cr P IFU Nit S	R12 270 000	STD
EA	2698	• A4, A6 3.0 TDI	6	150-171 (240-326)	83,000	2,000 2,000 3,000		500 501 604	Cr P Cr IFU Cr P	R12 280 000	STD
	4134	• A8 4.2 TDI	8								

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● AUDI

C1	1871	• Audi 100 GL, Coupe S	4	84 (115)	84,000	2,000		500	Cr S IF	R12 230 000	STD	
						2,500		508	P		R12 230 050	0,50
						5,000		700	Cr P S		R12 230 100	1,00
BBD, BHE	3189	• A3 3.2 Quattro, TT 3.2 VR6 Quattro	6	184 (250)	84,000	1,200		500	Nit S	R12 290 000	STD	
						1,500		508	P			
						2,000		700	Nit S			
AKC, AQG, BFL	3697	• A8 3.7, A6, S6	8	191-206 (260-280)	84,500	1,200		500	Nit S	R12 240 000	STD	
						1,500		508	P			
ANK, AQF, AQJ, ARS AUW, AUX, AVP AWN, BAS, BFM	4172	• A8 4.2 Quattro A6 4.2 Quattro	8	228-250 (310-340)		3,000		604	Nit S			
ABH, ABZ	4172	• Audi 100 Quattro S4 4.2, A8 Quattro	8	206-220 (280-299)	84,500	1,750		500	Cr S IF	R12 250 000	STD	
						1,750		508	P			
						3,000		604	Nit S			
	3123	• S4, A6, A8	6	188-255 (246-335)	84,500	1,200		500	Nit S	R12 300 000	STD	
						1,500		508	P			
						2,000		604	Nit S			
	4163	• S4, A6, A8	8									

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● BMW

W10 B16A	1397	• Mini One Cooper	4	70 (90)	77,000	1,200 1,200 2,500		500 508 700	Cr S IF P Cr P S	R15 060 000 R15 060 050	STD 0,50
W11 B16A	1598	• Mini Cooper, Clubman Cooper S, Mini Cabrio R52 Mini Cabrio R53	4	88-155 (120-211)							
N13 B16A	1598	• 114i, 116i, 118i 316i, 320i ed	4	75-125 (102-170)	77,000	1,200 1,500 2,000		500 508 700	Cr P IF P Cr P S	R15 260 000 R15 260 050	STD 0,50
M20 B20	1991	• 320i, 520i	6	90-95 (122-129)	80,000	1,500 2,000 3,500		500 508 700	Cr S IF P Cr P S	R15 000 000 R15 000 050	STD 0,50
M23 B23	2315	• 323i		102-110							
M41	1675	• 318 tds	4	66 (90)	80,000	3,000 1,750 3,000		504 501 604	Cr P IFU Cr	R15 140 000 R15 140 050 R15 140 100	STD 0,50 1,00
M51 D25 WA	2497	• 325 td, 325 tds, 525 td, 525 tds	6	85-105							
M21 D24 W M21 D24 WA	2443	• 320 d, 324 td, 524 td	6	63-84 (86-115)	80,000	2,500 2,000 3,500		505 501 604	Cr P Cr	R15 010 000 R15 010 050	STD 0,50
M50 B20 TÛ 1 M50 B20 M	1991	• 320 i, 520 i	6	110 (150)	80,000	1,500 1,500 2,000		500 508 700	Cr S IF P Nit S	R15 150 000 R15 150 050 R15 150 100	STD 0,50 1,00
M50 B20 M M52 B20	1991	• 320 i, 520 i	6	110 (150)	80,000	1,500 1,750 3,000		500 508 603	CrB Fe S IF P P	R15 160 000 R15 160 050 R15 160 100	STD 0,50 1,00
M20 B20 L	1990	• 320 i	6	92 (125)	80,000	1,500 2,000 3,000		500 508 700	Cr S IF P Cr P S	R15 270 000 R15 270 050 R15 270 100	STD 0,50 1,00
M20 B20 -K, -L, -M, -V	1990	• 320 i, 520 i	6	92-95 (125-129)	80,000	1,500 2,000 3,500		500 508 700	CrB S IF P Cr P S	R15 280 000 R15 280 050 R15 280 100	STD 0,50 1,00
M20 B23 -E, -K, -L	2315	• 320 i	6	102-110 (139-150)							



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● BMW

M57 D25	2495	• 525 d Intercooler	6	120 (163)	80,000	2,500 2,000 3,000		500 508 604	Cr IF P Nit S	R15 350 000	STD
M54 B22 M54 B226 S1	2171	• 320i, 520i Z3 2.2, Z4 2.2	6	125 (170)	80,000	1,200 1,500 2,000		500 508 604	NitB S IF P Nit S	R15 420 000 R15 420 050	STD 0,50
M52 B25 A	2497	• 523i 5 Touring	6								
N43 B16	1597	• 116 i, 316 i	4	90 (122)	82,000	1,200 1,500 2,000		500 508 700	Nit S P Nit S	R15 360 000	STD
N52 B25	2497	• X3 25i	6	160 (218)							
M40 B18	1795	• 318 i, 518 i	4	85 (115)	84,000	1,750 1,750 3,000		500 508 700	Cr S IF P Nit S	R15 020 000 R15 020 050 R15 020 100	STD 0,50 1,00
M70	4998	• 750 i, 750 iL, 850 i	12	220 (300)							
M50 B25	2497	• 525 i	6	160 (218)	84,000	1,200 1,200 2,000		500 508 700	Nit S IF Fe Nit S	R15 370 000 R15 370 050	STD 0,50
M40 B16 ME	1596	• 316 i	4	73-75 (99-102)	84,000	1,500 1,750 3,000		500 508 700	CrB S IF P Nit S	R15 030 000 R15 030 050	STD 0,50
M40 B18 ME	1795	• 318 i, 518 i	4	77-83 (105-113)							
M20 B25 M, -ME -ME8, -127	2494	• 325 i, 525 i, Z1	6	125-141 (170-192)							
M20 B28 M 127	2693	• 325 e, 525 e	6	95 (129)							
M10 B16, E21	1574	• 315, 316, 318	4	55-66 (75-90)	84,000	1,750 2,000 4,000		500 508 603	Cr S IF P Fe	R15 050 000 R15 050 050	STD 0,50

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

























● BMW

N45 B16 N46 B20 / -NB20 N43 B19, N44 B19	1995	• 116 i, 316 i, 318 i, 320 i X3 2.0 i, Z4 2.0 i	4	85-115 (115-156)	84,000	1,200		500	NitB S	R15 380 000 R15 380 050	STD 0,50
						1,500		508	P		
						2,000		604	Nit S		
M54 B25	2494	• 325 i, 523 i, 525 i	6	125-140 (170-190)							
M54 B30	2979	• 330 i, 530 i, 730 i, X5, Z3, Z4	6	170 (231)							
M43 B16 M40 B18 E M42 B18, TÛ1, M43 B18 M50 B25, M1E, TÛ M52 B28 M60 B30	1596	• 316 i	4	75 (102)	84,000	1,500		500	CrB Fe S IF	R15 170 000 R15 170 050 R15 170 100	STD 0,50 1,00
						1,500		508	P		
						2,000		700	Nit S		
	1795	• 318 i, 518 i, 318 is, Z3	4	83-103 (113-140)							
	2494	• 323 i, 325 i, 523 i, 525 i	6	125-141 (170-192)							
2792	• 328 i, 528 i, 728 i, Z3	6	141-142 (192-193)								
2997	• 530 i, 730 i	6	160 (218)								
M60 B30 M70 R50	2997	• 530 i, 730 i	8	160 (218)	84,000	1,500		500	Cr S IF	R15 190 000 R15 190 050 R15 190 100	STD 0,50 1,00
						1,500		508	P		
4998	• 750 i, 850 i	12	220 (300)			3,000		700	Cr P S		
N54 B30	2979	• 335 i	6	225 (305)	84,000	1,500		500	Nit S	R15 390 000	STD
						1,500		508	P		
						2,500		700	Nit S		
M20 B27 ME	2693	• 325 e, 525 e	6	90-95 (123-129)	84,000	1,500		500	Cr S IF	R15 200 000 R15 200 050	STD 0,50
						2,000		508	Fe		
						4,000		700	Cr S		
M47 D20	1998	• 320 d	4	165 (224)	84,000	3,000		504	Nit S IF	R15 210 000 R15 210 050	STD 0,50
						1,750		508	P		
						3,000		604	Nit S		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
M57 D20	1951	• 118 d, 120 d, 318 d, 325 d, 330 d 335 d, 520 d, 525 d, 530 d, 535 d 730 d, 745 d	4	90-243 (122-330)	84,000	2,500		500	Nit S	R15 400 000	STD
M57 D25	2498		6			2,000		508	P		
M57 D30	2998		6			2,000		604	Nit S		
M57 N306 D4											
M57 D44	4423		8								
M47 D20, M47 204 D1 M47 204 D4	1951	• 120 d, 318 d, 320 d, 520 d	4	85-120 (116-163)	84,000	3,000		504	Cr P	R15 410 000	STD
M57 D30 M57 N306 D2	2926	• 330 d, 530 d, 730 d, X5	6	130-142 (177-193)		2,000		508	P		
M67 D40	3901	• 740 d	8	180 (245)		3,000		604	Cr P		
M47 N204 D5	1995	• 320d, 320td, E46 320cd 520d	6	120 (163)	84,000	3,000		504	Cr P	R15 430 000 R15 430 050	STD 0,50
M57 N	2997	• 330d, 330cd, 330xd, E53 X5 E60 530d, E61 530d, E65 730d	6	145-210 (197-286)		2,000		508	P		
						3,000		604	Nit S		
N47 D20A N47S D20D	1995	• 116d, 118d, 120d 120d Cabriolet, 120d Coupe 318d, 320d, 320xd Touring 320d Cabriolet, 320xd Coupe 520d, 520d Touring X3 2.0d, X1 xDrive	4	85-150 (115-204)	84,000	1,750		500	Cr P	R15 440 000 R15 440 050	STD 0,50
						1,750		508	P		
N47 TU	1995	• 318d, 320d, 520d, 525d	4	135 (181)		2,000		604	Nit S		
M47 N	1995	• 118d, 318d 320d, 520d	4	120 (163)	84,000	3,000		504	Cr P	R15 460 000 R15 460 050	STD 0,50
						2,000		508	P		
						2,000		604	Nit S		
M43 B19 M44 B19	1895	• 318 i, 318 Ci, 318 Ti, Z3	4	87-103 (118-140)	85,000	1,200		500	Nit S	R15 220 000 R15 220 050 R15 220 100	STD 0,50 1,00
						1,500		508	P		
M73 B54	5379		12	240 (326)		2,000		700	Nit S		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	
















● BMW

M30 B25	2494	• 525, 525 i, 728, 728 i	6	106-110 (145-150)	86,000	1,750 2,000 4,000		500	Cr S IF	R15 080 000 R15 080 050 R15 080 100	STD
								508	P		0,50
								700	Cr P S		1,00
M30 B28 M30 B28 L	2788	• 528, 528 i, 628 Csi, 728, 728 i	6	121-135 (165-184)							
S50 B30 S50 B30	2990	• M3 M3 USA	6	180-210 (245-286)	86,000	1,200 1,500 2,000		500	Nit S IF	R15 290 000 R15 290 050 R15 290 100	STD
								508	Fe		0,50
								700	Cr P S		1,00
S70 B56	5576	• 850 Csi	12	279 (380)	86,000	1,500 1,750 2,500		500	Cr S IF	R15 300 000	STD
								508	Fe		
								700	Nit S		
S50 B32	3201	• M3 USA	6	180 (245)	86,400	1,200 1,500 2,000		500	Nit S IF	R15 310 000	STD
								508	Fe		
								700	Nit S		
M10 B18 K M10 B18 S	1766	• 316, 318, 518	4	66-75 (90-102)	89,000	1,750 2,000 4,000		500	Cr Fe S IF	R15 090 000 R15 090 050 R15 090 100	STD
								508	P		0,50
								604	P		1,00
M10 B20, M10 E20 M15, E12	1990	• 2000, 2000 ti, 2002, 2002 ti 2002 turbo, 320, 320 i, 520, 520 i	4	73-125 (100-170)							
M30 B30	2985	• 530 i, 630, 730, 730, 3.0	6	136-147 (185-200)							
M30 B32	3210	• 633 Csi, 732 i, 733 i, 3.0	6	132-145 (180-197)							
M60 B40	3982	• 540 i, 740 i, 840 Ci	8	210 (286)	89,000	1,500 1,500 3,000		500	Nit S	R15 120 000	STD
								508	P		
								700	Nit S		
M60 B40	3982	• 540 i, 740 i, 840 Ci	8	210 (286)	89,000	1,500 1,500 2,000		500	Cr S IF	R15 230 000 R15 230 050	STD
								508	Fe		0,50
								700	Nit S		
M30 B30 ME 7	2988	• 530 i, 730 i	6	145 (197)	89,000	1,500 2,000 3,500		500	Cr S IF	R15 100 000 R15 100 050	STD
								508	P		0,50
								604	Cr		
M30 B32 LA	3210	• 745 i	6	185 (252)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
M30 B34 MA M30 B34 ME M30 B35 ME7	3430	• 535 i, 635 Csi, 735 i	6	136-160 (185-218)	92,000	1,500		500	Cr S IF	R15 130 000 R15 130 050 R15 130 100	STD
						2,000		508	P		0,50
						3,500		604	Cr		1,00
M62 B44 LEV	4395	• 540i, 740i, 840i X5	8	210 (286)	92,000	1,500		500	Nit S	R15 450 000 R15 450 050	STD
						1,500		508	P		0,50
						2,000		700	Nit S		
B36	3535	• M5	6	231 (315)	93,400	1,500		500	Cr S IF	R15 320 000 R15 320 050 R15 320 100	STD
						1,500		508	P		0,50
						2,500		700	Nit S		1,00
M30 B34 M30 B35	3453	• 535 i, 635 Csi, 735 i	6	160 (218)	93,400	1,500		500	Cr S IF	R15 240 000 R15 240 050 R15 240 100	STD
						2,000		508	P		0,50
						3,500		700	Nit S		1,00
M30 B35 L	3453	• 535 i, 635 Csi, 745 i	6	160 (218)	93,400	1,500		500	Cr S IF	R15 250 000 R15 250 050 R15 250 100	STD
						2,000		508	P		0,50
						4,000		700	Cr P S		1,00
S14 B23	2302	• M3	4	147/158 (200/215)	93,400	1,500		500	Cr S IF	R15 330 000 R15 330 050 R15 330 100	STD
						1,500		508	P		0,50
						3,000		700	Nit S		1,00
M20 B35	3453	• 635 Csi	6	191-210 (260-286)							
S38 B38	3795	• M5	6	250 (340)	94,600	1,500		500	Cr S IF	R15 340 000 R15 340 050 R15 340 100	STD
						1,500		508	P		0,50
						2,500		700	Nit S		1,00










Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

CHEVROLET

LDV	1248	• Aveo 1.3 D	4	55 (75)	69,600	1,500		500	Cr P	R16 020 000	STD	
						1,500		501	P		R16 020 040	0,40
LSF	1248	• Aveo 1.3 D	4	70 (95)	69,600	2,000		604	Nit S	R16 020 060	0,60	
S-TEC II B12D	1206	• Spark 1.2, Aveo 1.2 Sail 1.2	4	62 (83)	69,700	1,200		500	Cr S IF	R16 010 000	STD	
						1,200		501	P		R16 010 025	0,25
						2,000		700	Cr P S		R16 010 050	0,50
A 14 NET B 14 NET LUJ	1364	• Aveo 1.4 Turbo, Cruze 1.4 Trax 1.4 LPG, Cruze SW 1.4 Orlando 1.4, Trax 1.4 Trax 1.4 AWD	4	103 (140)	72,500	1,200		500	NitB S IF	R16 030 000	STD	
						1,200		508	P		R16 030 050	0,50
						2,000		700	Nit S			
F14D3 85CB, 89CB	1796	• Lacetti 1.8	4	90 (122)	77,850	1,200		500	CrB S IF	R16 000 000	STD	
						1,500		508	P		R16 000 025	0,25
						2,500		700	Cr P S		R16 000 050	0,50
LBS	1956	• Malibu 2.0 D	4	118 (160)	83,000	1,500		500	Cr P	R16 040 000	STD	
						1,500		508	P		R16 040 050	0,50
						2,000		604	Nit S			

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● CHYRSLER

J8S	2068	• Jeep Cherokee 2.1 TD	4	59-64 (80-87)	86,000	2,500		504	Cr P	R17 000 000 R17 000 050	STD 0,50
						2,500		508	P		
						4,000		604	Cr P		
VM HR 492 HTI	2500	• Grand Cherokee 2.5 TD Voyager 2.5 TD	4	85-104 (116-141)	92,000	2,500		504	Cr	R17 030 000	STD
						2,000		508	P		
						4,000		604	Cr		
RG EDK R42S	2499	• Voyager 2.5 D Voyager IV 2.5 CRD Voyager 2.5 CRD TD Cherokee 2.5 TD	4	88-104 (120-141)	92,000	2,500		504	Cr P IF	R17 070 000	STD
						1,500		508	P		
						2,000		604	Nit S		

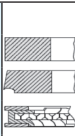
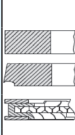
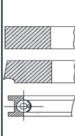
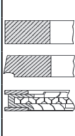
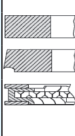
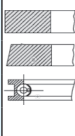
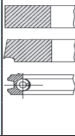
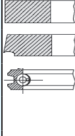
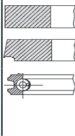
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● CITROEN

108C, XV8, LNA	954	• AX 10, Visa 10	4	32-35 (44-48)	70,000	2,000		500	Cr IF	R18 000 000	STD
						2,000		508	P		
						4,000		605	P		
TU9, TU9M, TU9Z XV8	954	• AX, Visa, Saxo, C5	4	33 (45)	70,000	1,500		500	CrB S IF	R18 010 000	STD
						1,500		501	P		
						3,000		700	Cr P S		
XW7	1124	• Visa, BX11	4	37 (50)	72,000	1,500		500	Cr S	R18 020 000	STD
						2,000		501	P		
						4,000		700	Cr P S		
TU1JP	1124	• C2, C3, Saxo	4	44 (60)	72,000	1,500		500	Cr S	R18 050 000	STD
						1,500		508	P		
						2,500		700	Cr S		
TU1K, TU1M, TU1Z	1124	• AX, BX, ZX, C15, Berlingo, Saxo	4	44 (60)	72,000	1,500		500	Cr S	R18 120 000	STD
						2,000		508	P		
						3,000		700	Cr P S		
8HP 8HR	1399	• 207 1.4 Hdi 208 1.4 HDi 2008 1.4 HDi	4	50 (68)	73,700	2,500		514	Cr P	R18 360 000 R18 360 050	STD 0,50
						1,950		501	P IFU		
						2,000		604	Nit S		
8HX, 8HY DV4 TD, DV4 TED	1398	• C1, C2, C3, Xsara, 1.4 HDI	4	40-66 (54-90)	73,700	2,500		505	CrB P	R18 450 000	STD
						1,950		501	P IFU		
						2,500		604	Cr P		
	602	• 2CV 6, Dyane 6, AMI 6, AMI 8	2	21/23 (28/32)	74,000	1,500		500	Cr S IF	R18 030 000	STD
						2,000		508	P		
						4,000		700	Cr P S		
	1015	• AMI Supe, Super 6, Break GS MMS 4, AMF 2, GSX, GSX2	4	41 (56)							
M28, M28-1	602	• 2CV 6, Dyane, Mehari, FAF AK400, Fourgonette Acadiane	2	18-23 (24-31)	74,000	1,750		500	Cr S IF	R18 040 000	STD
						2,000		508	P		
						3,500		700	Cr P S		
G11	1015	• GSA, GSX, Oltcit, Axel	4	40/41 (55/56)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● CITROEN

E1A	1118	• GSX Special, GSX 1130, C15 1.1	4	40 (54)	74,000	1,750 2,000 4,000		500 508 700	Cr S IF P Cr P S	R18 060 000	STD
TU3 JP TU3 JPL4	1361	• C2, C3, Saxo, Xsara, ZX Berlingo	4	55 (75)	75,000	1,500 1,500 2,500		500 508 700	CrB Fe S IF P Cr P S	R18 160 000	STD
TU3 JP TU3 JPL4	1361	• C2, C3, Saxo, Xsara, ZX Berlingo	4	55 (75)	75,000	1,500 1,500 2,500		500 508 603	Cr P P P	R18 460 000	STD
XY8	1360	• Visa, GT	4	59 (80)	75,000	1,750 2,000 4,000		500 508 700	CrB S IF P Cr P S	R18 070 000	STD
TU3 A, TU3 M K2D	1361	• AX14 TRS / -TS / -S BX, Berlingo, C15, ZX	4	44-55 (60-75)	75,000	1,750 2,000 3,000		500 508 700	Cr S IF P Cr P S	R18 080 000	STD
TUD3	1560	• AX14	4	37-39 (50-53)	75,000	2,250 1,750 3,000		500 501 603	Cr P P	R18 090 000	STD
KFU ET3 J 4	1360	• C2, C3, C4 1.4 i	4	65 (88)	75,000	1,200 1,500 2,500		500 508 604	Cr P P P	R18 240 000	STD
EB2M	1199	• C-Elysee 1.2 VTi 72	3	53 (72)	75,000	1,000 1,000 2,000		500 508 604	Nit S P Nit S	R18 520 000	STD
EB2	1199	• C1 II 1.2 VTi 82, C3 II 1.2 VTi 82 DS3 1.2 VTi 82 C4 Cactus 1.2 VTi 82	3	60 (82)							
EB2DT - HNZ EB2DTM - HNV EB2DTS - HNY	1199	• C3 II 1.2 Puretech 110 / 130 C3 II 1.2 THP 110 C3 Picasso 1.2 THP 110 • C4 Cactus 1.2 THP 110 / 130 C4 II 1.2 THP 110 / 130 C4 Picasso II 1.2 THP 110 / 130 • DS3 1.2 THP 110 / 130	3	81-96 (110-130)	75,000	1,200 1,000 2,000		500 508 604	Cr P P Nit S	R18 660 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

CITROEN

R/V 06/630 R/V 06/644-M29	652	• LNA, Visa, Axel, Oltcit	2	25-26 (34-36)	77,000	1,500 2,000 3,000		500	Cr S IF	R18 100 000	STD
								506	P		
								700	Cr P S		
	652	• LNA, Visa, Special, Club GS 1220, GS X2	2	26-44 (36-65)	77,000	1,750 2,000 4,000		500	Cr S	R18 110 000	STD
								506	P		
	1198	• GS	4	43 (60)				604	Cr		
TUD5 ATMO	1527	• AX, Saxo, Xsara, ZX	4	42 (57)	77,000	2,000 1,750 3,000		500	Cr P	R18 470 000 R18 470 040	STD 0,40
								501	P		
								604	Cr P		
TU5 JP	1587	• Saxo, Xsara, Berlingo	4	65 (88)	78,500	1,500 1,500 3,000		500	Cr S IF	R18 390 000 R18 390 050	STD 0,50
								508	P		
								700	Nit S		
TU5 JP4 NFU, NFX	1587	• C2, C3, C4, Saxo, Xsara	4	80 (109)	78,500	1,200 1,500 2,500		500	MoB N S	R18 480 000 R18 480 050	STD 0,50
								508	P		
								604	P		
TU5 JP4 NFU, NFX	1587	• C2, C3, C4, Saxo, Xsara	4	80 (109)	78,500	1,200 1,500 2,500		500	CrB Fe S	R18 300 000 R18 300 050	STD 0,50
								508	P		
								700	Cr P S		
NFP EC5	1587	• C-Elysee 1.6 VTi 115	4	85 (115)	78,500	1,000 1,200 2,000		500	Nit S IF	R18 530 000 R18 530 050	STD 0,50
								508	P		
								604	Nit S		
G 13/615 G 13/645	1299	• GSA, GSX Axel 7 CV	4	48 (65)	79,400	1,500 2,000 3,500		500	Cr S	R18 130 000	STD
								506	P		
								604	Cr		
XUD7	1769	• Visa, C15 D, C17 D, Xsara, BX Berlingo, ZX	4	44 (60)	80,000	2,000 2,000 3,000		500	Cr S	R18 140 000 R18 140 050 R18 140 080	STD 0,50 0,80
								501	Fe		
								604	Cr		
XUD7 TE	1769	• BX19, Visa	4	66 (90)	80,000	3,000 2,000 3,000		504	Cr	R18 150 000	STD
								501	P		
								604	Cr P		




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

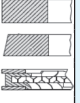
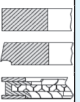
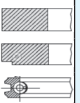
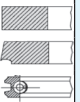
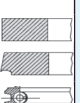
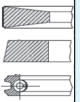
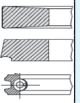
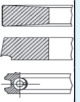
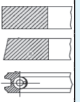
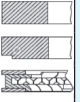
● CITROEN

DW8, DW8 B WJY, WJZ	1868	• Berlingo, Jumpy, Xsara C15	4	51-68 (71-92)	82,200	2,000		500	CrB S	R18 370 000 R18 370 060	STD 0,60 0,80
								508	P		
								604	Cr		
XU5 S, XU52 C 171 BZ	1580	• BX15, BX16	4	59-69 (80-94)	83,000	1,750		500	CrB Fe S IF	R18 170 000	STD
								508	P		
								700	Cr P S		
XU7 JP4	1761	• Berlingo, Xantia, Xsara, ZX	4	66-85 (90-116)	83,000	1,500		500	CrB Fe S IF	R18 180 000	STD
								508	P		
XU9 J4, XU9 J4Z	1905	• BX19 GTI	4	115 (158)		3,000		700	Cr P S		
XU5 M	1580	• BX, Visa, ZX	4	58/65 (79/89)	83,000	1,500		500	CrB S IF	R18 190 000	STD
								501	P		
								700	Cr P S		
XU9 M, XU9 J D2A, D2C, D2E, D2F D61A, D6E	1905	• BX, ZX, Evasion	4	80-90 (109-122)		4,000		700	Cr P S		
XUD9 XUD9 A	1905	• Jumpy, Jumper, Berlingo, Xsara BX, ZX, C25, Xantia, Relay Dispatch, Evasion	4	48-52 (65-71)	83,000	2,000		500	Cr S	R18 200 000 R18 200 050	STD 0,50
								501	P		
								604	Cr		
XUD9 TE XUD9 TF	1905	• Xantia, Xsara, ZX, BX Synergie, Chassis, Dispatch Evasion	4	66 (90)	83,000	3,500		504	Cr	R18 210 000 R18 210 050	STD 0,50
								501	P		
								604	Cr		
XUD9 TE XUD9 TF	1905	• Xantia, Xsara, ZX, BX Synergie, Chassis, Dispatch Evasion	4	66 (90)	83,000	3,000		504	Cr P	R18 490 000 R18 490 050	STD 0,50
								501	P		
								604	Cr P		
DT20C Euro 5	2993	• C5 III 3.0 HDi 240 C6 3.0 HDi	V6	177 (241)	84,000	2,000		500	Cr S	R18 600 000 R18 600 050	STD 0,50
								501	P IFU		
								604	Nit S		
DT20C Euro 5 DT20C (X8C) Euro 5	2993	• C5 III 3.0 HDi 240 C6 3.0 HDi	V6	155-177 (211-241)	84,000	1,750		500	Cr S	R18 640 000 R18 640 050	STD 0,50
								501	P IFU		
								604	Nit S		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	




CITROEN

XUD11 ATE XUD11 ATE/L XUD11 BTE	2088	<ul style="list-style-type: none"> XM, Xantia 	4	80 (109)	85,000	3,000 2,000 3,000	  	504 501 604	Cr P Cr	R18 220 000	STD
DW10 ATED DW10 ATED 4 DW10 TD DW12 TED4	1997 2179	<ul style="list-style-type: none"> C5, C8, Jumper, Jumpy Xantia, Xsara, Berlingo C5, C8 	4 4	66-81 (90-110) 98 (133)	85,000	3,500 2,000 3,000	  	505 501 604	Cr P P IFU Cr P	R18 440 000 R18 440 060	STD 0,60
EW10 J4 EW10 L3, EW10 L4	1998	<ul style="list-style-type: none"> C4, C5, C8, Xsara, Jumpy 	4	97-101 (132-137)	85,000	1,200 1,500 2,500	  	500 508 700	NitB S IF P Nit S	R18 500 000 R18 500 040 R18 500 060	STD 0,40 0,60
EW10 J4 EW10 L3, EW10 L4	1998	<ul style="list-style-type: none"> C4, C5, C8, Xsara, Jumpy 	4	97-101 (132-137)	85,000	1,200 1,500 2,500	  	500 508 700	NitB S IF P Nit S	R18 500 000 R18 500 025 R18 500 050	STD 0,25 0,50
DW10CD / AHZ DW10CTED4 / RHD, RHE, RHH DW10FC / AHW DW10FD / AHR, AHX DW10FDD / AHV	1997	<ul style="list-style-type: none"> C4 Grand Picasso I 2.0 HDi 150 C4 Grand Picasso II 2.0 HDi C4 Picasso I 2.0 HDi 150 C4 Picasso II 2.0 C5 III 2.0 HDi 165 C8 2.0 HDi 135 Jumpy 2.0 / 2.0 HDi 165 	4	94-133 (128-181)	85,000	2,000 2,000 2,000	  	503 501 604	Cr P P IF Nit S	R18 570 000 R18 570 060	STD 0,60
M20-615/30N	1985	<ul style="list-style-type: none"> CX2000, Normale, Super Pallas, Confort 	4	75 (102)	86,000	1,750 2,000 4,000	  	500 508 700	Cr S IF Fe Cr P S	R18 230 000	STD
XU10 2C, XU10 J2 Xu10 J4, XU10 J4R	1998	<ul style="list-style-type: none"> Evasion, Jumper, Xantia Xsara, XM, ZX 	4	84-114 (114-155)	86,000	1,500 1,750 3,000	  	500 508 700	CrB S P Cr P S	R18 250 000	STD
XUD11 A	2138	<ul style="list-style-type: none"> XMD 12 	4	61 (83)	86,000	2,500 2,000 3,000	  	500 501 604	Cr P Cr	R18 260 000	STD
XU10 J4 RS	1998	<ul style="list-style-type: none"> Xsara 2.0, Xantia 2.0i Evasion 2.0i 	4	123 (167)	86,000	1,500 1,500 3,000	  	500 501 700	CrB S P Cr P S	R18 380 000 R18 380 025 R18 380 060	STD 0,25 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
XN1 T	1971	• C25	4	56 (78)	88,000	1,500 2,000 4,000		500 501 700	Cr Fe Cr P S	R18 270 000	STD
J6 RA	1995	• CX	4	75/78 (102/106)	88,000	1,750 2,000 4,000		500 508 700	CrB S IF P IF Cr P S	R18 280 000	STD
J6 TA	2165	• CX22	4	84 (115)							
B22 /615	2175	• C35	4	46 (62)	90,000	2,000 2,000 4,000		500 506 604	Cr S Fe Cr	R18 290 000	STD
M22 /621	2175	• CX 2200	4	48 (66)							
DJ5	2446	• Jumper 2.5D	4	63 (86)	92,000	2,250 2,000 3,000		500 508 604	MoB P Cr	R18 400 000	STD
DJ5	2446	• Jumper 2.5D	4	63 (86)	92,000	2,250 2,000 3,000		500 508 604	Cr P P Cr P	R18 410 000	STD
DK5 ATE T8A THZ, THY, THX	2446	• Jumper, XM, VSX	4	76-96 (103-130)	92,000	3,000 1,750 3,500		504 501 604	MoB N IF Cr IF Cr P	R18 420 000	STD
DJ5 TED THX	2446	• Jumper	4	79 (107)	92,000	3,500 2,000 3,500		505 508 604	MoB N P Cr P	R18 430 000	STD
DJ5 T DJ5 TED	2446	• Relay TD, Jumper	4	95 (129)	92,000	3,500 2,000 3,000		505 508 604	Cr P Cr	R18 510 000	STD
B25, M25, U25 M22	2499	• C25, C35, C40, C45	4	51-55 (70-75)	93,000	2,500 2,000 4,000		500 501 604	Cr4 Cr P Cr P	R18 310 000	STD
M25 /659	2499	• CX 25, GTI, Pallas ie	4	101 (138)	93,000	2,000 2,000 3,500		500 506 700	Cr P Cr P S	R18 320 000	STD
















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● CITROEN

M22 /629	2499	• CX 2500	4	55 (75)	93,000	3,000 2,000 4,000		504 508 604	Cr P IWU Cr	R18 330 000	STD
M25 /629	2499	• Cx 2500, Pallas, Confort Reflex	4	55 (75)	93,000	2,000 2,000 4,000		500 508 604	Cr P P Cr P	R18 340 000	STD
ZPJ ZPJ4	2963	• XM30, XM24	6		93,000	1,500 1,750 3,500		500 508 700	Cr S P Cr P S	R18 350 000	STD

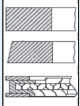
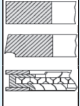
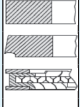
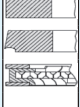
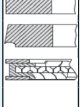
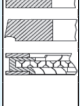
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● CUMMINS

3BT 2.9	2900	• BN25, CD85, CN96	3	144 (193)	102,000	3,000		504	Cr P	R19 000 000 R19 000 050 R19 000 100	STD
4BT 3.9, 4BTA 3.9	3900		4			2,380		501	P IF		0,50
6BT 5.9, 6BTA 5.9	5900		6			4,000		604	Cr P		1,00
3B 2.9	2900	• BN25, CD85, CN96	3	144 (193)	102,000	2,380		500	Cr P	R19 010 000 R19 010 050 R19 010 100	STD
4B 3.9	3900		4			2,380		501	P		0,50
6B 5.9	5900		6			4,000		604	Cr P		1,00
6CT 8.3, 6CTA 8.3	8267		6	160-194 (214-263)	114,000	3,500		504	Cr P IF	R19 020 000	STD
						3,000		501	P IF		
						4,000		604	Cr P		
C-Series 6 CT 8.3	8270		6	154-160 (209-218)	114,000	3,500		504	Cr P IW	R19 030 000	STD
						3,000		511	P IWU		
						4,000		604	Cr P		
LT-10A, LT-10C	10000	• 250B, A225, C225, C250	6	205 (305)	125,000	3,160		504	Cr P IW	R19 040 000	STD
						3,160		511	Cr P IFU		
						4,747		604	Cr P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DACIA

688-09	1108	<ul style="list-style-type: none"> 1210 	4	25-39 (34-53)	70,000	1,750 2,000 3,500		500 501 700	Cr S IF P Cr P S	R20 000 000	STD
H4B 400, 405 H4B 408, 410	898	<ul style="list-style-type: none"> Logan II TCe 90 / MCV II TCe 90 Sandero II TCe 90 	3	66 (90)	72,200	1,200 1,500 2,000		500 508 700	Nit S IF P Nit S	R20 050 000 R20 050 050	STD 0,50
H5F 402, 404, 410	1198	<ul style="list-style-type: none"> Dokker 1.2 TCe / TCe 115 Duster 1.2 TCe 125 Lodgy 1.2 TCe 	4	84-92 (115-125)							
810-25, 810-26 810-29	1289	<ul style="list-style-type: none"> 1300, 1310 	4	29-47 (40-64)	73,000	1,750 2,000 4,000		500 508 700	Cr S P Cr P S	R20 010 000	STD
C1J	1397	<ul style="list-style-type: none"> 1410 	4	34-53 (47-72)	76,000	1,750 2,000 4,000		500 508 700	Cr S IF P Cr P S	R20 020 000	STD
K4M K4J	1598	<ul style="list-style-type: none"> Logan 1.6, LPG 	4	79 (107)	79,500	1,200 1,500 2,500		500 508 700	CrB Fe S P Cr P S	R20 030 000	STD
K7J K4M K7M		<ul style="list-style-type: none"> Logan 1.4, Sandero 1.4, LPG Logan 1.6, Sandero 1.6, LPG 	4 4	55 (75) 64-79 (87-107)	79,500	1,500 1,500 2,500		500 508 700	CrB Fe S IF P Cr P S	R20 040 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DAF

400 D	2498	• BN25, CD85, CD96	4	86-97 (115-132)	102,000	2,380		500	Cr P	R21 020 000	STD		
	5880	• CD85, DN96	6			2,380			501			P IF	4,000
CT108 L	5880	• 45.150	6	95-120 (130-163)	102,000	3,000		504	Cr	R21 030 000	STD		
						2,380		501	P			4,000	
DNS 620	6239	• Series 1900	6	156 (212)	104,180	3,000		504	Cr	R21 120 000	STD		
DN 620, DNT 620 NT 133		• FA 1300, FA 1700		116-132 (158-180)		2,500		501	Cr P			4,000	
DH 825	8250	• 1602, 2000, 2005, 2100, 2105 2205, 2525, 2300, 2305, 2500 2505	6	115-184 (156-250)	118,000	3,000		500	Cr	R21 040 000	STD		
						3,000		501	P				
						3,000		501	P				
						6,000		604	Cr				
DHB 825, DHS 825 DHT 825, DHU 825 DHTU 825	8250	• 2000, 2005, 2100, 2105 2200, 2300, 2305, 2505, 2525 FA, FT, FTT	6	71-184 (96-250)	118,000	3,500		504	Cr	R21 050 000	STD		
						3,000		501	P				
						3,000		501	P				
						6,000		604	Cr				
RS180, RS200, RS222	8650	• FA 75.300	6	222 (302)	118,000	3,500		504	Cr	R21 130 000	STD		
								3,000				501	Cr
PF 183M, PF 212M PF 235M	9186	• CF250, CF290, CF320		183-235 (249-320)		4,000		604	Cr				







Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● DAF

1160 Series ; DK, DKB, DKA, DKL DKDL, DKV, DKS, DKSE DKVL, DKCL, DHS, DKZ DKT, DKTD, DKTL, DKX DKXE LT	11630	<ul style="list-style-type: none"> DK/-360, -464, -475, ATE 2400 FA2600, FT2600, FAT2605 DKB/-325, -360, -390, -392, -447 -450, -460, -475, -500, -540 DKA/-280, -310, -350, -360, -475 DKS/-325, -340 DKS/-325, -340, -360, -380, -390 -450, -475, -500, -540 FT2800/2805, FTR3300, FAG3305 FTG3325 ATI/-3300, -3305, -3325, -3603 -3605, -3625 	6	156 (212)	130,000	3,160		505	Cr	R21 070 000	STD
			6	97-169 (132-230)		3,160		501	Cr		
			6	139-260 (189-354)		3,160		501	Cr		
			6	205-315 (279-428)		6,330		604	Cr		
			6	212-274 (288-373)							
1160 ATI	11630	<ul style="list-style-type: none"> Series; ATI 	6	212-274 (288-373)	130,000	3,160		505	Cr	R21 080 000	STD
						3,160		501	P		
						6,330		604	Cr		
1160 Series	11630	<ul style="list-style-type: none"> 325, 360, 464, 475, 2400 200, 201 	6	230-260 (312-354)	130,000	3,160		500	Cr	R21 090 000	STD
						3,160		501	P		
						3,160		501	P		
						6,330		604	Cr		
						6,330		600	P		
1160 Series	11630	<ul style="list-style-type: none"> 325, 360, 475, 2400, 200, 201 	6	230-260 (312-354)	130,000	3,160		500	Cr	R21 100 000	STD
						3,160		501	P		
						3,160		501	P		
						6,330		604	Cr		
1160 WS	11630	<ul style="list-style-type: none"> 95.310, 95.350, 95.380 	6	225-282 (306-383)	130,000	4,000		500	Cr	R21 110 000	STD
						3,160		501	P		
						4,000		604	Cr		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DAF

WD259, WS225, WS242 G/L, WS315 L WS268 G/L, WS295 L	11622	• 95.350, 95.310, 95.330, 95.360 85.360, 95.400, 95.430	6	225-315 (306-428)	130,000	4,000 3,160 4,000	  	505 501 604	Cr Cr Cr	R21 140 000	STD
	WS295 /-G, WS315	11627	• 95.400, Marine	6	260-315 (354-428)						
	WS242, WS268 WS315	11630	• 85.330, 85.360, 95.360, 95.430	6	242-315 (329-428)						
MX265, MX300 MX340, MX375	12900	• XF105	6	265-375 (360-510)	130,000	4,000 3,160 4,000	  	504 501 604	Cr Cr Cr	R21 060 000	STD











Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

145 A4.000 156 A4.000 M204 AA.07.0	770	• Panda 750	4	25 (34)	65,000	1,500 1,500 3,000		500 508 700	Cr S IF P Cr P S	R22 000 000	STD
170 A1.000 / -A1.046	903	• 500 0.9	4	30 (41)							
141 B.000 M020 GS07.0	770	• Panda	4	25 (34)	65,000	1,750 2,000 3,947		500 508 700	CrB Fe S IF P Cr P S	R22 010 000 R22 010 040 R22 010 060	STD 0,40 0,60
100 G.000 / -G.002 100 GC.000	843	• 850	4	25-36 (34-49)							
100 GL.000 / -GC.000 100 GF.003 / -GT.000 100 GBC.000	903	• 127, 500, 850, Marbella, Uno Panda	4	26-50 (35-68)							
M020 CB.09.0 A112 B1.000	965	• Panda, A112	4	35 (48)	67,200	1,500 1,750 3,947		500 508 700	Cr S IF P Cr S	R22 020 000	STD
199 A3.000 263 A2.000	1248	• Doblo 1.3 D Multijet Doblo Combi 1.3 D Multijet	4	66 (90)	69,600	1,500 1,500 2,000		500 501 604	Cr P P Nit S	R22 860 000 R22 860 040 R22 860 060	STD 0,40 0,60
199 B1.000	1248	• 500 1.3 D Multijet 500 C 1.3 D Multijet Fiorino 1.3 D Multijet Idea 1.3 D Multijet Punto 1.3 D Multijet Starda 1.3 D Multijet	4	70 (95)							
199 A3.000 188 A9.000 M733 AT.12.Z	1248	• 500, Doblo, Panda, Albea Linea, Idea, Grande Punto 1.3 Multijet 16v	4	51-70 (70-95)	69,600	2,000 1,500 2,000		500 501 604	Cr P P Nit S	R22 030 000 R22 030 040	STD 0,40
156 A2.050 / -A2.246 156 A3.000, 156 C.046	999	• Panda 1000, Uno, 45, 50, 60	4	33-43 (45-58)	70,000	1,500 1,500 3,000		500 501 700	CrB Fe S IF P Cr P S	R22 040 000	STD
160 A3.000 M204 AA.11.0	1108	• Uno 60, Tipo 1.1	4	41 (55)							
176 A7.000 / -A8.000 176 B4.000 / -B9.000 178 B5 / 178 E2 182 B2, 188 A4 188 A5, 223 A5	1108	• Palio, Brava, Marea, Stilo Doblo, Panda, Idea Punto 60, 75, 85	4	40-59 (54-80)	70,000	1,200 1,200 2,500		500 508 700	CrB Fe S IF P Nit S	R22 640 000 R22 640 040	STD 0,40

























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

176 A7.000 / -A8.000 176 B4.000 / -B9.000 178 B5 / 178 E2 182 B2, 188 A4 188 A5, 223 A5	1242	• Palio, Bravo, Marea, Stilo Doblo 1.2, Panda, Siena Punto 60, 75, 85	4	44-63 (60-86)	70,800	1,200 1,200 2,500	  	500 501 700	CrB P S IF P Cr P S	R22 650 000 R22 650 040 R22 650 060	STD 0,40 0,60
M671 AA.14Z	1368	• Panda, Punto, Bravo, Linea Doblo 1.4, Idea, 500 Abarth Egea 1.4 16v	4	57-114 (77-155)	72,000	1,000 1,200 2,000	  	500 508 604	NitB S IF P Nit S	R22 050 000 R22 050 040	STD 0,40
843 A1.000	1368	• Doblo, Punto, Stilo, Palio 1.4	4	66-70 (90-96)	72,000	1,200 1,200 2,000	  	500 508 604	Cr P P Nit S	R22 810 000 R22 810 040	STD 0,40
124 A.000 124 BL.016	1197	• 124 Berlina Familiare	4	44 (60)	73,000	1,500 2,000 3,947	  	500 508 605	Cr S P	R22 060 000 R22 060 040 R22 060 060	STD 0,40 0,60
131 A.000 / -B.000 131 BC.74.0	1297	• 131	4	40-60 (55-82)	76,000	1,500 2,000 3,947	  	500 508 700	Cr S P Cr P S	R22 080 000 R22 080 040 R22 080 060	STD 0,40 0,60
127 A5.000 M703 AA	1302	• Uno D, Panda, 127, Spazio	4	33 (45)	76,000	2,500 2,000 3,000	  	504 508 604	Cr P Cr	R22 100 000 R22 100 060	STD 0,60
128 A1.000	652	• 126, Panda 30	2	17 (24)	77,000	1,500 2,000 4,000	  	500 508 700	MoB S P Cr P S	R22 110 000 R22 110 040 R22 110 060	STD 0,40 0,60
M709 AT.13.0 M709 BT.13.0	1367	• Uno TD	4	51-53 (70-72)	78,000	2,500 2,000 3,000	  	504 501 604	Cr P Cr	R22 120 000 R22 120 040 R22 120 060	STD 0,40 0,60
198 A6.000 263 A4.000 198 A3.000 199 B5.000	1598 1598	• Bravo II 1.6 D Multijet Doblo 1.6 D Multijet • Bravo II 1.6 D Multijet Doblo 1.6 D Multijet Linea 1.6 D Multijet 500 L 1.6 D Multijet	4 4	66 (90) 77 (105)	79,500	1,500 1,500 2,000	  	500 508 604	Cr P P Nit S	R22 880 000 R22 880 040 R22 880 060	STD 0,40 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

126 A2.000 M024 AA.07.0	704	• 500, 126	2	19-22 (26-30)	80,000	1,500		500	CrB Fe S	R22 130 000 R22 130 040 R22 130 060 R22 130 080	STD
						2,000		508	P		0,40
						4,000		700	Cr P S		0,60
128 A.000 / -AC5.000 138 A.000 / -B.000 138 B1.000 / -C1.000 146 A4.000 / -A4.048	1116	• Ritmo, Uno, 128	4	40-48 (55-65)							0,80
182 B6.000 Euro 3 M645 WA.15.Z	1596	• Brava, Bravo, Doblo, Marea Palio, Siena, Stilo, 1.6	4	76 (103)	80,500	1,200		500	Nit S	R22 070 000	STD
						1,200		508	P		
						2,000		700	Nit S		
M603 AT.13.0 146 A2.000	1301	• Uno Turbo	4	73-77 (100-105)	80,500	1,500		500	Cr S IF	R22 140 000 R22 140 040 R22 140 060	STD
						2,000		508	P		0,40
						4,000		604	Cr P		0,60
M202 PA.13.0 M605 PB.13.0 146 C1.000 / -C5.000 146 D5.000 160 A1.046 / A4.000	1372	• Fiorino, Tempra, Tipo, Mille Elba, Uno 70	4	51-57 (70-79)	80,500	1,500		500	CrB S IF	R22 150 000 R22 150 040 R22 150 060	STD
						1,750		508	P		0,40
						3,000		700	Cr P S		0,60
	1372	• Uno, Punto, Palio, Tempra 1.4	4	51 (69)	80,500	1,200		500	Cr S IF	R22 660 000	STD
						1,500		508	P		
						3,000		700	Cr P S		
146 A8.000 176 A4.000 M603 BT.13.0	1372	• Punto, Uno Turbo	4	84-100 (114-136)	80,500	1,500		500	Cr S IF	R22 670 000 R22 670 040 R22 670 060	STD
						2,000		501	Fe		0,40
						3,000		700	Cr P S		0,60
182 B6.000	1596	• Brava, Bravo, Doblo, Marea Palio, Stilo 1.6 16v	4	76 (103)	80,500	1,200		500	NitB S IF	R22 760 000 R22 760 040	STD
						1,200		508	P		0,40
						2,000		700	Nit S		
175 A3.000 M648 FT.19.T	1998	• Marea, Coupe 2.0v Turbo	5	162 (220)	82,000	1,200		500	Cr S IF	R22 680 000 R22 680 040 R22 680 060	STD
						1,500		508	Fe		0,40
						3,000		700	Cr P S		0,60






















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FIAT - IVECO

M634 AA 182 A3.000	1369	• Marea, Bravo, Brava	4	83-103 (113-140)	82,000	1,500		500	Cr S Fe	R22 690 000 R22 690 040 R22 690 060	STD
						1,500		501	P		0,40
						3,000		700	Cr P S		0,60
M646 AA.17.T 182 A	1747	• Barquette, Bravo, Brava Marea, Coupe	4	55-59 (75-80)	82,000	1,500		500	Cr S Fe	R22 690 000 R22 690 040 R22 690 060	STD
						3,000		700	Cr P S		0,60
M648 AA.19.T 182 A1.000	1910	• Bravo 2.0v, Marea 2.0v Coupe	5	108 (147)	82,000	1,500		500	Cr S Fe	R22 690 000	STD
182 A7, 182 A8, 182 B4 M720 AT.19.T M724 BT.19.T	1910	• Marea, Bravo, Brava, Marengo Stilo	4	55-91 (75-124)	82,000	3,000		504	Cr P	R22 700 000 R22 700 040 R22 700 060	STD
						2,000		501	P IFU		0,40
						3,000		604	Cr P		0,60
M717 AT.24.T M722 BT.24.T M722 MT.24.T	2387	• Marea	5	91-100 (124-136)	82,000	1,500		500	Cr S Fe	R22 690 000 R22 690 040 R22 690 060	STD
						1,500		501	P		0,40
						3,000		700	Cr P S		0,60
M724 NT.19.T M724 RT.19 M724 MT.19 192 A1.000 937 A5.000	1910	• Marea, Stilo, Croma, Doblo Idea, Punto, Sedici Multijet 1.9 JTD 8v Multijet 1.9 JTD 16v	4	59-110 (80-150)	82,000	2,000		500	Cr P	R22 730 000 R22 730 040 R22 730 060	STD
						2,000		508	P		0,40
						2,000		604	Cr P		0,60
841 G.000, 841 M.000 841 N.000 M729 AT.24	2387	• Brava, Croma Multijet 2.4 JTD 20v	5	129-147 (175-200)	82,000	1,500		500	Cr S Fe	R22 690 000 R22 690 040 R22 690 060	STD
						1,500		501	P		0,40
						3,000		700	Cr P S		0,60
DW8, DW 8B WJY, WJZ	1868	• Sudo	4	51-52 (69-71)	82,200	2,000		500	CrB S	R22 090 000 R22 090 060	STD
						2,000		508	P		0,60
						3,000		604	Cr P		0,60
M708 FA.17	1697	• Fiorino, Uno, Tipo	4	43 (58)	82,600	2,500		504	Cr	R22 160 000 R22 160 040 R22 160 060	STD
						2,000		508	P		0,40
						3,000		604	Cr P		0,60
M705 CA.19 M705 VA.19.S 149 B1.000	1930	• Ducato, Uno, Tempra	4	44-51 (60-70)	82,600	2,500		504	Cr	R22 160 000 R22 160 040 R22 160 060	STD
						2,000		508	P		0,40
						3,000		604	Cr P		0,60
149 B2.000 / -B3.000 149 B4.000 / -B4.046 M705 BA.19.0	1697	• Fiorino, Regata, Ritmo Uno D, Tipo	4	43-44 (58-60)	82,600	2,500		504	Cr	R22 170 000 R22 170 040 R22 170 060 R22 170 080	STD
						2,000		508	P		0,40
						4,000		604	Cr P		0,60
149 A1.000 / -B1.000 160 A7.000 M705 FA.19.010	1929	• Ducato, Marengo, Regata Tempra, Tipo, Brava, Bravo	4	48-51 (65-70)	82,600	2,500		504	Cr	R22 170 000 R22 170 040 R22 170 060 R22 170 080	STD
						2,000		508	P		0,40
						4,000		604	Cr P		0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

M707 HT.19.0 F280 A1.000	1930	• Ducato TD	4	60 (82)	82,600	3,000 2,000 4,000	  	504 508 604	Cr P Cr P	R22 180 000 R22 180 040 R22 180 060	STD 0,40 0,60
M708 HT.17 176 A5.000	1698	• Punto, Ducato, Tempra, Tipo	4	52-68 (71-92)	82,600	3,000 2,000 3,000	  	504 508 604	Cr P Cr P	R22 190 000 R22 190 040 R22 190 060 R22 190 080	STD 0,40 0,60 0,80
M710 AT.19.0 160 A6.000 718 AT.19 / -TT.19.L	1929	• Talento, Ducato, Tempra, Tipo	4	59-68 (80-92)							
M711 KT.19	1930	• Croma TD	4	69 (94)	82,600	2,000 2,000 3,000	  	500 508 604	Cr P Cr P	R22 710 000 R22 710 040 R22 710 060	STD 0,40 0,60
138 A5.000 138 B6.000	1714	• Ritmo, Regata	4	40-43 (55-58)	83,000	2,500 2,000 4,000	  	504 506 604	Cr P Cr P	R22 200 000 R22 200 040 R22 200 060	STD 0,40 0,60
XU7 JP4 XU7 JPZ	1761	• Scudo	4	66-76 (90-103)	83,000	1,500 1,500 3,000	  	500 508 700	CrB Fe S IF P Cr P S	R22 240 000	STD
D8B, D8C, DHX XUD9 TF, XUD9 TE XUD9 BTF	1905	• Scudo, Ducato	4	66-68 (90-92)	83,000	3,000 2,000 3,000	  	504 501 604	Cr P P Cr P	R22 250 000	STD
XUD9 TE XUD8 B	1905	• Scudo 1.9 TD	4	68 (92)	83,000	3,500 2,000 3,000	  	504 501 604	Cr P Cr P	R22 260 000	STD
M649 AA.24.T.TER 838 A2.000	2446	• Lancia 2.4i 20v Lancia 2.4i 20v Coupe	5	129 (175)	83,000	1,200 1,500 3,000	  	504 508 604	Cr P S P Cr P	R22 740 000	STD
192 A2.000 M649 HA.24.V.025	2446	• Stilo	5	129 (175)	83,000	1,200 1,200 2,000	  	506 508 604	P P P	R22 770 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

250 A1.000	1956	• Ducato 115 Multijet 2.0 D	4	85 (116)	83,000	1,500		500	Cr P	R22 920 000 R22 920 050	STD 0,50
						1,500		508	P		
						2,000		604	Nit S		
263 A1.000	1956	• Doblo 2.0 D Multijet Sedici 2.0 D Multijet	4	99 (135)							
940 A5.000	1956	• Freemont 2.0 JTD	4	103 (140)							
198 A5.000 939 B5.000	1956	• Freemont 2.0 JTD Freemont 2.0 JTD 4x4 Bravo II 2.0 D Multijet	4	100-125 (136-170)							
	1400	• Ritmo 105TC, 125TC	4		84,000	1,000		500	Nit S IF	R22 210 000	STD
	1600	• Lancia Monte Carlo				1,500		508	P		
						3,000		700	Nit S		
M400 BT.16.0 831 A7.000	1585	• Lancia Delta	4	103-105 (140-143)	84,000	1,500		500	CrB Fe S	R22 220 000 R22 220 040 R22 220 060	STD 0,40 0,60
159 44.000 835 C2.000 M610 LA 18C	1756	• Tempra, Tipo	4	77-81 (105-110)		1,500		508	P		
154 A, 834 C, 836A M 601 HA	1995	• Croma, Tempra, Tipo	4	110-113 (150-153)		3,000		700	Nit S		
131 B1.000 132 C.000 132 D.000	1585	• 131, 132, Argenta	4	71-72 (96-98)	84,000	1,500		500	CrB Fe S IF	R22 230 000 R22 230 040 R22 230 060	STD 0,40 0,60
						2,000		508	P		
						3,947		605	P		
131 B, 131 C, 132 C 132 D, 154 A, 834 B M 601, M 834	1995	• 131, 132, Argenta, Croma Croma T	4	66-129 (90-175)							
XM 7 T	1795	• Ducato 10, Furgone	4	51 (69)	84,000	1,500		500	Cr S IF	R22 280 000	STD
						2,000		508	P		
						4,000		700	Cr P S		
XUD11 BTE	2088	• Ulysee 2.2 JTD	4	80 (109)	85,000	3,000		504	Cr	R22 330 000	STD
						2,000		501	P		
						3,000		604	Cr		






















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

DW10 ATED RHX, RHV, RHW, RHZ RHX, RHV, RHW, RHZ	1997	• Scudo, Ducato, Ulysee, 2.0 JTD	4	69-94 (93-128)	85,000	3,500 2,000 3,000		505	Cr P	R22 570 000 R22 570 060	STD 0,60
	2179	• Ulysee 2.2 JTD	4	98 (133)				501	P IFU		
DW12BTED4 / 4HT	2179	• Ulysse 2.2 D Multijet Ulysse 2.2 JTD	4	125 (170)	85,000	2,000 2,000 2,000		503	Cr P	R22 970 000 R22 970 060	STD 0,60
							501	P IF			
128 A1.000 128 AC.000 128 AR.000 128 AS.000	1290	• X 1/9, 128	4	44-55 (60-75)	86,000	1,500 2,000 3,947		500	Cr S IF	R22 270 000 R22 270 040 R22 270 060	STD 0,40 0,60
							508	P			
XU 10 2 C XU 10 J 2 Z RFU, RFW, RGU	1998	• Ducato, Ulysse	4	84-89 (114-121)	86,000	1,500 1,750 3,000		500	CrB S	R22 580 000	STD
							508	P			
128 A3.000 138 A1.000 138 A3.000 149 A3.000 138 B3.000 159 A, 160 A, 176 A 835 C	1302 1498 1581	• Regata 70, Ritmo 65 Ritmo 70 Super, Uno 70 Super Ritmo, Regata Punto, Scudo, Tempra, Tipo Bravo, Elba, Fiorino	4 4 4	48-55 (65-75) 55-61 (75-82) 59-66 (80-90)	86,400	1,500 2,000 4,000		500	Cr S	R22 290 000 R22 290 040 R22 290 060	STD 0,40 0,60
							508	P			
159 A3.000 M 202 PB 15.0	1581	• Tipo, Tempra, Punto	4	59-66 (80-90)	86,400	1,500 1,750 3,000		500	CrB Fe S	R22 300 000 R22 300 040 R22 300 060	STD 0,40 0,60
							508	P			
182 A4.000 182 A6.000 M 645 BA 15.T	1581	• Bravo, Brava, Palio, Siena Stilo, Marea, Doblo	4	76 (103)	86,400	1,500 1,500 3,000		500	Cr P IW	R22 590 000 R22 590 040 R22 590 060	STD 0,40 0,60
							501	P IWU			
XN 1 T, P 170 B	1970	• Ducato 13, Furgone	4	55-57 (75-78)	88,000	1,500 2,000 4,000		500	Cr	R22 310 000	STD
							501	P			

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

8144.65.200 /-300	1995	• 131D, 132D	4	44 (60)	88,000	2,000 2,000 4,000	  	500 501 604	Cr S P IF Cr P	R22 320 000	STD
F1AE0481C	2286	• Ducato 2.3 JTD	4	81 (110)	88,000	2,500 2,000 2,500	  	504 501 604	Cr P IF Cr P	R22 910 000	STD
F1AE3481A F1AE3481B F1AE3481C F1AFL411A F1AFL411B F1AFL411C	2287	• Daily V 26L 11 / 11D 29L 13 / 13D / 11V / 13V / 15V 35C 11D / 11V / 13V / 11K 35C 13K / 13DKP 35S 11V / 13V 40C 11 / 11V / 13 / 13V / 15LV	4	78-107 (106-146)	88,000	1,750 1,500 2,000	  	500 501 604	Cr P IF P Nit S	R22 950 000	STD
F1AGL411A F1AGL411B F1AGL411C F1AGL411D F1AGL411M	2287	• Ducato 130 Multijet 2,3 D Ducato 150 Multijet 2,3 D Ducato 180 Multijet 2,3 D	4	96-130 (131-177)							
DK5 ATE DJ 5 T	2446	• Ducato	4	76-96 (103-130)	92,000	3,000 1,750 3,500	  	504 501 604	MoB N IF Cr IF Cr P	R22 720 000 R22 720 050	STD 0,50
8140.21, 8144.21 8140.07.2700 / -3700 8140.27.2700 8140.47.2700 8140.67.2700	2445	• Ducato, Daily, Grinta	4	55-85 (75-115)	93,000	3,000 2,000 3,000	  	504 501 604	Cr P P Cr P	R22 340 000 R22 340 040 R22 340 060	STD 0,40 0,60
CRD 93, U 25 B 25.637	2499	• Ducato, Argenta D, 131D, 132D Alfa 30 AR8, Alfa 35 AR8	4	50-55 (68-75)	93,000	2,000 2,000 4,000	  	500 508 604	Cr P P Cr P	R22 350 000 R22 350 040 R22 350 060	STD 0,40 0,60
8140.61 8142.61 8144.61	2445	• Ducato 13/14, Daily 30 F8 '-32 F8, -35 F8, -40 F8 131D, 132D, Argenta D	4	53 (72)	93,000	3,000 2,000 4,000	  	500 508 604	Cr P P Cr P	R22 360 000 R22 360 040 R22 360 060	STD 0,40 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

8140.61, 8142.61 8144.61	2445	• Argenta, Ducato, Maratea Marengo, Campagnola	4	53 (72)	93,000	3,000		500	Cr P	R22 370 000 R22 370 040 R22 370 060	STD 0,40 0,60
								508	P		
								604	Cr P		
8140.67.2500 8144.67.2500	2499	• Ducato, Croma	4	55 (75)	93,000	3,000		500	Cr P	R22 370 000 R22 370 040 R22 370 060	STD 0,40 0,60
								508	P		
B25/637	2499	• 242E	4	52 (70)	93,000	2,500		500	Cr4	R22 750 000	STD
								501	Cr P		
								604	Cr P		
8140.23.3700 /-3900 8140.43.3700 /-3728	2798	• Ducato, Daily	4	77-85 (105-115)	94,400	3,000		504	Cr P	R22 560 000 R22 560 040 R22 560 060	STD 0,40 0,60
								501	P IWU		
								604	Cr P		
8140.23.3700 /-3900 8140.43.3700 /-3728 8140.43S	2798	• Ducato, Daily	4	77-92 (105-125)	94,400	2,500		504	Cr P	R22 780 000 R22 780 040 R22 780 060	STD 0,40 0,60
								501	P		
								604	Cr P		
8140.63.2200	2798	• Ducato, New Daily, Maxi 2.8D	4	63-90 (85-122)	94,400	3,000		504	Cr P	R22 790 000 R22 790 040 R22 790 060	STD 0,40 0,60
								501	P IWU		
								604	Cr P		
802.000	1560	• 250, 255, 300, 400	2	19 825)	95,000	2,500		500	Cr P IF	R22 380 000	STD
								508	P		
								604	Cr P		
803.000	2300		3	28-38 (38-51)							
804.000	3100		4	40-52 (54-70)							
806.000	4700		6	66-81 (90-110)							
F1CE0481HA /-HC /-FA	2998	• Ducato Daily 3.0 HPI 50	4	107-130 (146-176)	95,800	2,500		504	Cr P	R22 870 000	STD
								501	P		
								604	P		
















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FIAT - IVECO

8035.06	2710	• DI 15, -20, -25, DIM 20, -25 Forklift	3	40 (55)	100,000	2,500		500	Cr	R22 390 000	STD
								508	P		
								604	Cr P		
8040.02	3457	• 65 NC, 70 NC, 75 NC Forklift	4	42 (60)							
8060.02, 8065.02 8065.06	5818	• 80 NC/NT/NR, 90 NC/PC/P 100 NCL, 110NC/NR/NT/PC	6	74-90 (100-122)							
8025.02	1728	• Tractor 300, 350, 355	2	24 (32)	100,000	2,500		500	Cr P	R22 400 000	STD
508	P										
604	Cr P										
5,500											
8030.02, 8035.02	2592		3	33-46 (45-63)							
8040.02, 8045.02	3456		4	44-60 (60-82)							
8060.02, 8065.02	5184		6	74-90 (101-122)							
8065.06	5418	• Tractor	6	73 (100)	100,000	3,000		504	Cr P	R22 600 000	STD
						2,500		501	P		
						4,000		604	Cr P		
F4AE0481 A, -C, -D E13, E15, E17 Tector	3920	• EuroCargo Tector NEF 60, 75, 80, 100, 110, 120, 130 150	6	95-125 (130-170)	102,000	3,000		504	Cr P	R22 800 000	STD
						2,380		501	P IW		
						4,000		604	Cr P		
F4AE0681 A, -B, -D, -E E18, E21, E24, E28 Tector	5880	• EuroCargo Tector NEF 60, 75, 80, 100, 110, 120, 130 150	6	134-202 (182-275)							
F4AE0481 A, -C, -D E13, E15, E17 Tector	3920	• EuroCargo Tector NEF 60, 75, 80, 100, 110, 120, 130 150	6	95-125 (130-170)	102,000	3,000		504	MoN P	R22 900 000	STD
F4AE0681 A, -B, -D, -E E18, E21, E24, E28 Tector	5880	• EuroCargo Tector NEF 60, 75, 80, 100, 110, 120, 130 150	6	134-202 (182-275)				604	Cr P		






























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● FIAT - IVECO

8031.04, 8035.04	2749	<ul style="list-style-type: none"> Raupe FL, Benfra 215 Tractor 505CS, 566DT 570 V/F/DTF/DT, 580DT, 588 Raup 565, R 8056 	3	37-43 (50-58)	103,000	2,500		500	Cr P	R22 410 000	STD		
									508			P	
												604	Cr P
8040.04, 8041.04 8045.04	3666	<ul style="list-style-type: none"> Tractor 766DT, 780DT, 788 R 8076, Raupe FL5, FL/FR 7 FR9, FR12, 576C, 855C 	4	45-63 (61-85)									
8055.04	4583	<ul style="list-style-type: none"> Tractor 880 DT/S, Raupe 955C Radlader FR7 	5	63-66 (86-90)									
8060.04, 8065.04	5499	<ul style="list-style-type: none"> Series 65/79/80/90/95/100 110/115/135/310 Tractor 1000 S/DT, 1180DT Raupe FL7 	6	60-124 (82-168)									
8065.24	5499	<ul style="list-style-type: none"> FR 10/12, FE 8R Tractor 1280 T 	6	60-85 (82-115)	103,000	3,000		504	Cr	R22 420 000	STD		
									501			P	
												604	Cr P
8030.05, 8035.05	2931	<ul style="list-style-type: none"> 60.65, 60.66, 60.90, FL4 	3	37-44 (50-60)	104,000	2,500		500	Cr P	R22 430 000	STD		
									508			P	
												604	Cr P
8040.05, 8045.05	3908	<ul style="list-style-type: none"> 80.65, 80.66, 80.90, 85.95 90.90, FR 9/10, FL4, FL/FD 5 FE12, FB/FD/FL/FR 7 	4	52-65 (71-88)									
8050.05, 8055.05	4885	<ul style="list-style-type: none"> 90.90, 95.55 	5	66-72 (90-98)									
8060.05, 8065.05	5862	<ul style="list-style-type: none"> 110.90, 115.90, FD/FL 7/9/10 	6	63-88 (86-120)									
8040.25, 8045.25	3908	<ul style="list-style-type: none"> 60.11, 65.11, 65.12 75.12, 79.12 	4	74-85 (101-115)	104,000	3,000		504	Cr	R22 440 000	STD		
									508			P	
												604	Cr P
8060.25, 8065.25	5862	<ul style="list-style-type: none"> 145.17, 75 PC, 75 PM, 90 PC 79.13, 115.17, 117.17, 90 PM 80E 18 EuroCargo 	6	110-130 (150-177)									
8040.25, 8040.45	3908	<ul style="list-style-type: none"> EuroCargo 	4	85-100 (115-136)	104,000	3,500		504	Cr P	R22 610 000	STD		
									508			P	
												604	Cr P
8060.45	5862	<ul style="list-style-type: none"> EuroCargo 	6	130-152 (177-207)									

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FIAT - IVECO

8040.25, 8040.45	3908	• EuroCargo	4	85-100 (115-136)	104,000	3,500 2,500 4,000	  	504 508 604	MoB P IWU Cr P	R22 850 000	STD
8060.45	5862	• EuroCargo	6	130-152 (177-207)							
CO 3/75	4562	• Tractor 50, 805, 840, 850, 880 Lupetto, Daino, Tigrotto Leoncino, OM 50/55/60/65/70	4	66 (90)	110,000	2,500 2,500 2,500 5,000	   	500 501 508 604	Cr P P P P	R22 450 000	STD
CP 3 D, CP 3-11	7412	• Tractor 650DT, 850DT 130 NT/NC/NR/F/R FL10, SL11, S/SR 70, S90	6	97-110 (132-150)							
8360.46	7684	• EuroCargo EuroTech	6	162-196 (220-267)	112,000	3,500 2,500 4,000	  	504 501 604	Cr P P IF Cr P	R22 620 000	STD
8340.04, 8340.06	4570	• 50 F10, 55 F10, 65 F10, 70 F10 75 F10, 50/55/65/70/75 -NC	4	66-73 (90-100)	115,000	2,500 2,500 4,000	  	500 501 604	Cr P P Cr P	R22 460 000	STD
8361.25, 8361.45 8365.25	8102	• Tractor 1880, 1580 160-90, 180-90 FD/FL 14, FR 15/20, FE 28 FG 85/95, FA 150, FR 158	6	120-154 (163-210)	115,000	3,000 2,500 4,000	  	505 501 604	Cr P P Cr P	R22 470 000	STD
F2B, F2BE Cursor 8	7790	• EuroMover, EuroTech EuroTrakker, Eurotech Cursor	6	180-259 (245-352)	115,000	3,000 2,500 4,000	  	504 508 604	Cr P Cr P IFU Cr P	R22 840 000	STD
8460.21, 8460.41	9498	• EuroTech, EuroClass EuroRider, TurboCity EuroTrakker	6	154-276 (210-375)	120,000	3,500 3,000 5,000	  	504 501 604	Cr P Cr P IF Cr P	R22 480 000	STD
8200.02, 8200.12 8205.12	9800	• 684 N /-NP /-NT /-T /-TP 690 N4 /-AD14 /-BD14 /-FL14 150 C, 308, 309, 331, 343, 409 418, 420	6	140-147 (190-200)	122,000	3,500 3,000 3,000 5,500	   	504 500 508 604	Cr P P P Cr P	R22 890 000	STD
8220.02, 8220.12 8205.12	9572	• 150.20, 130.20, 190.20	6	148 (201)	125,000	3,000 3,000 4,000	  	500 501 604	Cr P P Cr P	R22 490 000	STD


Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● FIAT - IVECO

8220.22, 8220.32	9572	• 165.24, 180.24, 370.24	6	150-180 (204-244)	125,000	4,000 3,000 3,000 4,000		504 501 508 604	Cr P P P Cr P	R22 500 000	STD
8200.02, 8200.12 8205.02	9800	• 684 T, 68 N23 160 NC, 160 NT	6	140-147 (190-200)	125,000	3,500 3,000 3,000 5,500		504 501 508 604	Cr P P P Cr P	R22 510 000	STD
F3AE0681 B F3AE0681 D F3AE0681 E	10303	• EuroTech E40 /E43 /E39 EuroStar E40 /E43 /E39 Starlis S40 /S43	6	287-316 (390-430)	125,000	3,500 3,000 4,000		504 508 604	Cr P P IFU Cr P	R22 830 000	STD
203 A.61 203 H.61 310 H.61	11548	• 682 N3 /N4 /T3 /T4 690 N1 /N2 /T1 /T1R	6	132 (180)	130,000	4,000 3,000 3,000 5,500		504 500 508 604	Cr P P P Cr P	R22 520 000	STD
F3B Cursor 13	12882	• 410 E, 440 E, 720 E 260 E, 340 E, 380 E	6	279-393 (380-535)	135,000	4,000 3,000 5,000		504 508 604	Cr P Cr P IFU Cr P	R22 820 000	STD
8210.42	13798	• EuroTrakker E37 /E42 EuroTech E42, EuroStar E42	6	272-309 (370-420)	137,000	4,000 3,000 5,500		504 501 604	Cr P Cr P Cr P	R22 530 000	STD
8210.02, 8210.22 8215.22	13798	• 170, 180, 190, 240, 260, 300 330, 370, 421, 619, 691, 697 190.30, 330.30, 370.30 FD 20, FE 40, FE 45, FL 20	6	162-223 (220-304)	137,000	4,000 3,000 3,000 5,500		504 501 501 604	Cr P Cr Cr Cr P	R22 540 000	STD
8260.01, 8260.02	12876	• 370.25, BM 25 /30	6	182 (248)	145,000	4,000 3,000 6,000		504 501 604	Cr Cr IF Cr	R22 550 000	STD
8280.01, 8280.02 8280.22, 8280.42	17174	• 190, 220, 240, 320 FR35, FD30 Turbostar, Turbostar 2	8	243-481 (330-654)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FIAT - IVECO

8260.02	12876	• 175.17, 370.25, BM25, BM305	6	182 (248)	145,000	3,500 3,000 6,000		500 501 604	Cr P Cr P IF Cr P	R22 630 000	STD
8280.01, 8280.02 8280.22, 8281.22 8282.22, 8285.22	17174	• EuroStar E52 170, 190, 220, 240, 260, 330	8	370-375 (476-510)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FORD

HLB	999	• Fiesta 1.0	4	33 (44)	68,700	1,500 1,750 3,000		500 508 700	Cr S P Cr P S	R23 000 000	STD
G6A, GUD, GUE, HCS	1118	• Fiesta 1.1	4	37-40 (50-54)							
199 A3.000 188 A9.000 M733 AT.12.Z	1248	• Ka 1.3 TDCi	4	55 (75)	69,600	2,000 1,500 2,000		500 501 604	Cr P P Nit S	R23 040 000 R23 040 040	STD 0,40
ZH12 ZETEC S DHA, DHB, DHC, DHD DHE, DHF, DHG	1242	• Fiesta 1.25 Trend	4	55 (75)	71,900	1,200 1,500 2,500		500 508 700	CrB P S IF P Cr P S	R23 480 000 R23 480 025 R23 480 050	STD 0,25 0,50
XMJA, XMJB XMJC, XMJD - EcoBoost	998	• Fiesta VI 1.0	3	48 (65)	71,900	1,000 1,200 2,000		500 508 700	CrB S Fe P Cr S P	R23 630 000 R23 630 050	STD 0,50
SFJC, SFJD SFJE, SFJF SFJH, SFJK M2DA, SFDA M2GA, M2GB - EcoBoost	998	• Tourneo Courier, B-Max 1.0 Transit Courier, Fieta VI 1.0 Focus III 1.0, C-Max II 1.0 Grand C-Max 1.0 Transit Connect 1.0 Tourneo Connect 1.0	3	74 (100-101)							
M1CA, M1CB M1DA, M1JC M1JE, M1JH - EcoBoost	998	• Mondeo V 1.0, Grand C-Max 1.0 Focus III 1.0, C-Max II 1.0 Ecosport 1.0, B-Max 1.0	3	92 (125)							
YYJA, YYJB YYJC, YYJD YYJE - EcoBoost	998	• Fiesta VI 1.0, B-Max 1.0 Ecosport 1.0	3	103 (140)							
UGJC	1499	• B-Max 1.5 TDCI Duratorq Fiesta VI 1.5 TDCI Duratorq C-Max 1.5 TDCI Duratorq Focus 1.5 TDCI Duratorq	4	44 (75)	73,500	2,000 1,950 2,000		503 508 604	Cr P P Nit S	R23 660 000 R23 660 050	STD 0,50
DV4TD F6JA DV4TED F6JB	1399	• Fiesta 1.4 TDCi Fusion 1.4 TDCi	4	50-66 (68-90)	73,700	2,500 1,950 2,500		505 508 604	CrB P P IFU Cr P	R23 050 000	STD

























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FORD

F6JD KVJA	1399	• Fiesta VI 1.4 TDCi	4	51 (70)	73,700	2,500		514	Cr P	R23 580 000 R23 580 050	STD 0,50
						1,950		501	P IFU		
						2,000		604	Nit S		
J4B , J4C, J6A, J6B, JBA JBB, JBC, JJA, JJD	1297	• Escort, Fiesta, Orion, Courier Ka 1.3 i	4	44-46 (60-63)	74,000	1,500		500	Cr S IF	R23 010 000 R23 010 050 R23 010 100	STD 0,50 1,00
						1,750		508	P		
						3,000		700	Cr P S		
TKA, TKB, TKW, TLA	957	• Fiesta 0.9 / 1.0	4	29-33 (40-45)	74,000	1,600		500	Cr	R23 020 000 R23 020 050 R23 020 100	STD 0,50 1,00
						2,000		508	P		
						4,000		700	Cr P S		
GSG, GSF, GMA, GPA GLB	1117	• Escort, Fiesta 1.1	4	37 (50)							
JLA, JLB	1297	• Escort, Orion 1.3	4	44 (60)							
DURATORQ G8DA, G8DB, HHDA HHDB, HHJA, HHJB	1560	• Fusion 1.6 TDCi, Fiesta 1.6 TDCi Focus C-Max 1.6 TDCi	4	66-80 (89-109)	75,000	3,000		505	Cr P	R23 060 000 R23 060 060	STD 0,60
						1,950		508	P		
						2,500		604	Cr P		
DV6C	1560	• Focus 1.6 TDCi	4	70-84 (95-115)	75,000	2,500		514	Cr P	R23 550 000 R23 550 050	STD 0,50
						1,950		508	P		
						2,000		604	Nit S		
ZETEC 16V	1597	• Escort, Orion	4	65 (88)	76,000	1,500		500	CrB Fe S	R23 030 000 R23 030 050 R23 030 100	STD 0,50 1,00
						1,600		508	P		
						2,500		700	Cr P S		
L1E, L1F, L1G, L1H L1J, L1K	1597	• Escort, Orion Fiesta, Mondeo 1.6i 16 v	4	66 (90)	76,000	1,200		500	Nit S IF	R23 310 000 R23 310 050 R23 310 100	STD 0,50 1,00
						1,600		508	P		
						2,500		700	Cr P S		
ZH14 ZETEC S	1392	• Fiesta 1.4, Fusion 1.4	4	59 (80)	76,000	1,200		500	NitB S	R23 540 000 R23 540 050	STD 0,50
						1,500		501	P		
						2,500		700	Nit S		
F4A, F4B, F6B, F6D F6E, F6F, F6G FUA, FUAA	1392	• Escort, Orion, Fiesta 1.4	4	52-55 (71-75)	77,250	1,600		500	Cr P	R23 320 000 R23 320 050 R23 320 100	STD 0,50 1,00
						2,000		506	P		
						4,000		700	Cr P S		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FORD

LC	1285	• Capri II, Taunus	4	41-44 (55-59)	79,000	2,000		500	Cr P	R23 390 000 R23 390 050 R23 390 100	STD
						2,500		501	P		0,50
						4,000		700	Cr P S		1,00
FYDA, FYDD ZH 16 ZETEC-S	1597	• Fiesta, Focus, Puma, Mondeo Fusion 1.6 16 v	4	74-90 (100-123)	79,000	1,200		500	NitB S	R23 080 000 R23 080 050 R23 080 100	STD
						1,500		508	P		0,50
						2,000		700	Nit S		1,00
JQDA, JQDB, JQGA JQMA, JQMB YUDA - EcoBoost	1596	• Grand C-Max 1.6, C-Max II 1.6 Focus III 1.6, Kuga II 1.6 Transit Connect 1.6 Tourneo Connect 1.6	4	110 (150)	79,000	1,200		500	NitB S	R23 590 000 R23 590 050	STD
						1,200		508	P		0,50
						2,000		700	Nit S		
JTBA, JTBB JTWA, JTWB - EcoBoost	1596	• Mondeo IV 1.6, Galaxy 1.6 S-Max 1.6	4	118 (160)							
JTDA, JTDB JTMA - EcoBoost	1596	• Focus III 1.6, C-Max II 1.6 Grand C-Max 1.6 Kuga II 1.6 4x4, Escape II 1.6 4x4	4	134 (182)							
1Z AFN, AHU	1896	• Galaxy 1.9 TDI	4	66-81 (89-110)	79,500	1,750		500	CrB Fe S	R23 130 000 R23 130 050 R23 130 100	STD
						2,000		501	P IFU		0,50
						3,000		604	Cr		1,00
R2C, R6A CVH	1769	• Sierra 1.8	4	64-66 (87-90)	80,000	1,500		500	Cr IF	R23 070 000 R23 070 050 R23 070 100	STD
						1,500		501	P		0,50
						3,000		700	Cr P S		1,00
JPA, JPC	1296	• Fiesta, Escort, Orion 1.3	4	51 (69)	80,000	1,600		500	Cr	R23 090 000 R23 090 050 R23 090 100	STD
						2,000		508	P		0,50
						4,000		700	Cr P S		1,00
L4B, L6B, LJB, LJD LJF, LP1, LP2, LPA LR1, LR2, LRB, LUA LUB, LUC, LUD, LUG LUJ	1597	• Fiesta, Escort, Orion, Sierra 1.6	4	58-81 (79-110)							
LTA, LTB, LTC	1608	• Fiesta D, Escort D, Orion D 1.6D	4	40 (54)	80,000	2,000		500	CrB Fe S	R23 100 000 R23 100 050 R23 100 100	STD
						2,000		501	P		0,50
						3,000		604	Cr P		1,00
RDA, RDB, RKA, RKB RKC, RQB, RQC	1796	• Escort, Fiesta, Orion Mondeo 1.8	4	77-96 (105-131)	80,600	1,500		500	Cr S	R23 110 000 R23 110 050 R23 110 100	STD
						1,600		508	P		0,50
						2,500		700	Cr P S		1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FORD

DOHC 4V	1796	• Fiesta XR2i/S, Escort, Orion	4	85-100 (116-136)	80,600	1,500 1,600 3,000		500 508 700	Cr S P Cr P S	R23 120 000 R23 120 050 R23 120 100	STD 0,50 1,00
ZETEC E ZH18N, ZH18M ZH18P	1796	• Mondeo 1.8i, Focus 1.8i Escort 1.8i	4	77-85 (103-116)	80,600	1,200 1,500 2,500		500 508 700	Nit S IF P Cr P S	R23 140 000	STD
ZETEC E ZH18N, ZH18M ZH18P	1796	• Mondeo 1.8i, Focus 1.8i Escort 1.8i	4	77-85 (103-116)	80,600	1,200 1,600 2,500		500 508 700	Nit S IF P Cr P S	R23 190 000	STD
ZETEC ZH	1796	• Mondeo 1.8 16v	4	77-83 (103-113)	80,600	1,500 1,750 3,000		500 508 604	Cr P IW P Cr P	R23 280 000 R23 280 050 R23 280 100	STD 0,50 1,00
AAA, AMY, AYL	2792	• Galaxy 2.8i V6	V6	120-150 (163-204)	81,000	1,500 1,750 3,000		500 508 700	Cr S IF P Cr P S	R23 330 000 R23 330 050 R23 330 100	STD 0,50 1,00
LSD, LSE	1593	• Sierra 1.6, Laser 1.6	4	55 (75)	81,330	1,600 2,000 4,000		500 501 700	Cr P P Cr P S	R23 340 000 R23 340 050 R23 340 100	STD 0,50 1,00
RTE, RTF, RTH, RTA RTB, RTC, RTD, RTG RTJ, RTK	1753	• Fiesta, Orion, Escort 1.8 D	4	44 (60)	82,500	2,000 2,000 3,000		500 501 604	Cr P IF Cr P	R23 150 000 R23 150 050 R23 150 100	STD 0,50 1,00
RFA, RFB, RFL, RFD RFK, RFM, RFN, RFS RFU, RVA	1753	• Fiesta, Mondeo, Escort P100 Pick Up 1.8 D	4	55-66 (75-90)	82,500	2,500 2,000 3,000		505 501 604	Cr IF P IF Cr P	R23 160 000 R23 160 050 R23 160 100	STD 0,50 1,00
DURATORQ	1753	• Galaxy 1.8 TDCi, S-Max 1.8 TDCi Transit Connect 1.8 TDCi	4	66-81 (90-110)	82,500	1,750 2,000 2,000		500 508 604	Cr S IF P IFU Nit S	R23 300 000 R23 300 050	STD 0,50
BHDA, BHDB C9DA, C9DB, C9DC F9DA, F9DB FFDA, KKDA	1753	• Focus, Connect, Tourneo Transit 1.8 TDCi	4	55-85 (75-115)	82,500	2,500 2,000 3,000		503 501 604	Cr S P Cr P	R23 500 000 R23 500 050	STD 0,50

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FORD

TV24 EAO	2394	<ul style="list-style-type: none"> Scorpio Scorpio 2.4i, Granada 2.4i 	V6	92-96 (125-130)	84,000	1,600		500	Cr P	R23 400 000 R23 400 050	STD
						1,750		501	P		0,50
						3,500		604	Cr P		
Panther I4 - EcoBlue	1996	<ul style="list-style-type: none"> Tourneo Custom Transit Custom 	4	96 (130)	84,010	2,000		500	Nit S	R23 600 000 R23 600 050	STD
						2,000		501	Cr P IF		0,60
						2,000		604	Nit S		
EDBA	1988	<ul style="list-style-type: none"> Mondeo, Focus Cougar 2.0 16v 	4	100 (136)	84,800	1,500		500	Cr P IF	R23 180 000 R23 180 050	STD
						1,750		508	P		0,50
						3,000		700	Cr P S		
EAO	1988	<ul style="list-style-type: none"> Countour, Mondeo 2.0i 	4	97-100 (132-136)	84,800	1,500		500	Cr S IF	R23 370 000 R23 370 050 R23 370 100	STD
						2,000		508	P		0,50
						3,000		700	Cr P S		1,00
DW10CTED4	1997	<ul style="list-style-type: none"> Kuga 2.0 	4	120 (163)	85,000	2,000		503	Cr P	R23 670 000 R23 670 060	STD
						2,000		501	P IF		0,60
						2,000		604	Nit S		
DURATORQ QWFA, ABFA D5BA, D6BA	1988	<ul style="list-style-type: none"> Puma, Mondeo Transit 2.0 TDCi 	4	85-96 (115-130)	86,010	2,000		500	Cr P IF	R23 350 000 R23 350 025 R23 350 050	STD
						2,000		508	P		0,25
						2,000		604	Nit S		0,50
DURATORQ	1988	<ul style="list-style-type: none"> Puma, Mondeo Transit 2.0 TDCi 	4	85-96 (115-130)	86,000	2,000		500	Cr S	R23 360 000 R23 360 050	STD
						2,000		508	P		0,50
						3,000		604	Nit		
DURATORQ	1988	<ul style="list-style-type: none"> Transit, Mondeo 	4	74 (115)	86,000	2,500		503	Cr S	R23 380 000 R23 380 050	STD
						2,000		508	P		0,50
						3,000		604	Nit		
NBA, NBC, NES, N8B N9A, N9C, N9D, N9E N9F, N9K, NSD, NSF NSE	1988	<ul style="list-style-type: none"> Galaxy, Sierra, Scorpio Transit, Tourneo 2.0 	4	77-92 (105-125)	86,000	1,600		500	Cr P IF	R23 410 000 R23 410 050 R23 410 100	STD
						1,750		508	P		0,50
						3,000		700	Cr P S		1,00
R2A REB, REC, RED, REF	1796	<ul style="list-style-type: none"> Granada, Siera, Scorpio 2.0 	4	66 (89)	86,200	1,600		500	Cr	R23 220 000 R23 220 050 R23 220 100	STD
						2,000		501	P		0,50
						4,000		700	Cr P S		1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
DURATEC HE AODA, AODB CJBA, CJBB N4JB	1999	• Focus, Mondeo 2.0 Fiesta ST, C-Max, S-Max	4	93-105 (126-138)	87,500	1,200		500	Cr4B S	R23 470 000 R23 470 050	STD
						1,200		501	P IFU		0,50
	2261	• Galaxy, Maverick 2.3 C-Max, S-Max	4	107-110 (146-150)		2,500		700	Cr P S		
TNCC TNCD, TNCF - EcoBoost R9CB, R9CD, R9CF R9CH, R9CI - EcoBoost N38H, N48H - EcoBoost	1999	• Mondeo V 2.0 Fusion 2.0	4	146-149 (199-203)	87,500	1,200		500	CrB P S	R23 680 000 R23 680 050	STD
						1,200		501	P S		0,50
							2,000		700		Nit S
	1999	• Mondeo V 2.0 Galaxy 2.0 S-Max 2.0	4	176 (240)							
	2261	• Mustang Coupe 2.3	4	227-233 (309-317)							
TNWB - EcoBoost TPBA TNWA, TNPA - EcoBoost	1999	• S-Max 2.0 (WA6) Galaxy 2.0 (WA6)	4	146 (199)	87,500	1,200		500	CrB P S	R23 690 000 R23 690 050	STD
						1,500		501	P S		0,50
	1999	• S-Max 2.0, S-Max 2.0 (WA6) Galaxy 2.0 (WA6) Mondeo IV 2.0 (BA7)	4	149-176 (203-239)		2,000		700	Nit S		
LG, HC	1576	• Taunus 1600, Capri 1600 II Transit 100/ 120/ 130/ 190 Cortina, Granada, Escort	4	44-70 (60-95)	87,650	2,000		500	CrB Fe S	R23 230 000 R23 230 051 R23 230 102	STD
						2,500		501	P		0,508
							4,000		700		Cr P S
LCE, LCN, LAT, LCR	1594	• Capri, Sierra, Taunus, Transit P100 1.6	4	46-54 (63-73)	87,650	1,600		500	Cr	R23 240 000 R23 240 050 R23 240 100	STD
						2,000		501	P		0,50
							4,000		700		Cr P S
183 V6	3000	• Taurus 3.0	V6	106 (145)	89,000	1,500		500	Cr S IF	R23 420 000	STD
						1,500		508	P		
						4,000		700	Cr P S		
DT24H, DT24N DT24P DURATORQ	2402	• Transit TDi	4	55-88 (75-120)	89,910	2,500		503	Cr P	R23 170 000 R23 170 050 R23 170 100	STD
						2,000		501	P IF		0,50
						3,000		604	Cr P		1,00
HFFA, RBFA, RFCA V184	2402	• Transit 310S, 350E, 350L, 350M	4	88 (120)	89,910	2,000		500	Cr P	R23 520 000 R23 520 025 R23 520 050	STD
						2,000		508	P		0,25
						2,000		604	Nit S		0,50

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

FORD

12M P4C, P5C, P6C	1498	• Taunus 15M/ 17M Capri, Consul, Granada 1700	V4	40 (55)	90,000	2,000 3,000 4,000		500	Cr IF	R23 250 000 R23 250 050 R23 250 100	STD
								501	P		0,50
								700	Cr P S		1,00
EV17L HF17L	1699	• Taunus, Transit, Tournier	V4	48 (65)							
YYF, YYH, YYN, YYP YYR, YYT, YYU	2293	• Capri, Granada, Taunus 2300	V6	79-92 (108-125)							
N8D	1993	• Taunus, Capri, Cortina Consul, Granada, Pinto	4	57-81 (78-110)	90,800	2,000 2,500 4,000		500	CrB Fe S IF	R23 260 000 R23 260 051 R23 260 102	STD
								501	P		0,508
								700	Cr P S		1,016
HC, N4A, N4I, NE, NE4 NEK, NEL, NEN, NEL NEN, NEP, NER, NR2 NRB, NRA, NRD, NRI	1995	• Taunus, Escort, Cortina Sierra, Granada, Scorpio	4	72-85 (98-115)	90,800	1,600 2,000 4,000		500	Cr P	R23 270 000	STD
								501	P		
								700	Cr P S		
YB P	1993	• Escort Cosworth Sierra Cosworth	4	167 (227)	90,800	1,500 1,750 3,000		500	Cr S IF	R23 430 000 R23 430 050 R23 430 100	STD
								501	P		0,50
								700	Cr P S		1,00
PR5, PR6, PR7, PR8 PRC, PRD, PRE, PRG PRN, PRT, PYA, PYU	2792	• Granada, Sierra, Capri 2.8 i	V6	105-118 (143-160)	93,000	2,000 2,500 4,000		500	Cr S	R23 200 000 R23 200 050	STD
								508	P		0,50
								700	Cr P S		
FB	2935	• Scorpio	V6	143 (195)	93,000	1,600 1,750 3,000		500	Cr P	R23 440 000 R23 440 050	STD
								508	P		0,50
								700	Cr P S		
BRE, BRF, BRG	2935	• Scorpio, Granada 2.9 i	V6	143-152 (195-207)	93,000	1,600 1,750 3,500		500	Cr P	R23 450 000 R23 450 050	STD
								508	P		0,50
								700	Cr P S		
6M34 WL-C	2499	• Ranger Pickup TDCI	4	107 (143)	93,000	2,000 1,500 2,000		500	Cr S IF	R23 560 000 R23 560 025 R23 560 050	STD
								501	Cr		0,25
								604	Nit S		0,50
XM34 TD WL-T	2499	• Ranger Pickup Thunder Ranger Pickup XLT	4	83 (110)	93,000	2,500 2,000 3,000		500	Cr P	R23 570 000 R23 570 025 R23 570 050	STD
								508	P		0,25
								604	Cr P		0,50

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
XM 34	2500	• Ranger Pick Up	4	58 (79)	93,000	2,500		500	Cr P IF	R23 530 000 R23 530 050	STD
						2,000		501	Cr P IF		0,50
						3,000		604	Cr P		
4BC, 4CA, 4CC, 4DA 4ED, 4FA, 4FB, 4FC 4FD, 4HB, 4HC, 4GA	2496	• Transit 2.5 TD	4	55-63 (75-86)	93,670	2,500		505	CrB Fe P S	R23 210 000 R23 210 065 R23 210 100	STD
						2,000		501	P IF		0,65
						4,000		604	Cr P		1,00
York 25N/P	2496	• Transit 80/ 100/ 120/ 130 160/ 190	4	50 (68)	93,670	2,000		500	CrB Fe S	R23 460 000 R23 460 065 R23 460 100	STD
						2,000		501	P IF		0,65
						4,000		604	Cr P		1,00
2401 E YORK	2358	• A0505, A0609 Transit FT7 /80 /90 /100 /115 Transit FT7 /120 /125 /130 /150 /160	4	43-45 (59-62)	93,670	2,385		503	Cr P	R23 490 000 R23 490 065 R23 490 100	STD
						2,385		508	P		0,65
						4,747		604	Cr P		1,00
2402 E YORK	3537	• A0409, A0509, A0609, A0709	6	64-68 (87-92)							
TC	2496	• Transit 2.5 Di	4	56 (76)	93,670	2,500		503	Cr P	R23 510 000 R23 510 065 R23 510 100	STD
						2,000		508	P		0,65
						4,000		604	Cr P		1,00

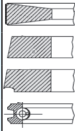

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FORD NEW HOLLAND

4D 592 E	3610	<ul style="list-style-type: none"> Thames Trader, Major, Tractor Power Major 	4	51-79 (69-108)	100,000	2,385		500	Cr IF	R24 000 000	STD		
												501	P
6D 590 E	5416		6			2,385		506	P				
												604	Cr
						4,747		601	P				
365, 2713 E	5952	<ul style="list-style-type: none"> Cargo D 0710, 0711, 0810, 0811 0910, 0911, 1010, 6500 	6	61-95 (83-130)	104,775	2,385		500	Cr P IF	R24 020 000	STD		
												501	P IF
												508	P
												604	Cr P
110 363 Dover II	5947	<ul style="list-style-type: none"> Cargo D 0711, 0811, 0911 	6	81 (110)	104,775	2,385		500	Cr	R24 080 000	STD		
												508	P
												604	Cr P
360 DT, 360 TC 2704 ET, 2726 T	5944	<ul style="list-style-type: none"> Cargo D 0915, 1114, 1115 1314, 1315, 1515, 1315K 1515K, 1614, 2014 2115, 2215 DA 2014, 2214 DT 2414 	6	106-110 (144-150)	104,775	3,160		504	Cr	R24 090 000	STD		
												501	P IF
												508	P
												604	Cr P
2712 E, 2722 255 Four	4161	<ul style="list-style-type: none"> D 0610, 0607, 0707 	4	55 (75)	107,210	2,385		500	Cr	R24 040 000	STD		
												501	P IW
2714 E, 2715 E, 2725 380 SIC, 380 CID	6224	<ul style="list-style-type: none"> Cargo D 0607, 0812, 0813, 0911 0913, 1011, 1013, 1111, 1211 D 300, 400, 500, 600, 700, 750 800, DT 800, 642 Combine 	6	77-94 (105-128)		2,385		508	P				
												604	Cr P
4,747						4,747		604	Cr P				
6Y, 7A, 4.256	3294	<ul style="list-style-type: none"> Tractor 4000 	3	44 (60)	111,760	2,385		500	Cr P IF	R24 060 000	STD		
												501	P IF
	4195	<ul style="list-style-type: none"> Tractor Major 650, 3230, 3430 3610, 3910, 4100, 5000, 5500 5550, 5610, 6000, 6500, 6600 Combine 620, 622 	4	55-58 (75-79)			2,385		508	P			
													604
	6388	<ul style="list-style-type: none"> Tractor 8000 		6	73 (100)								




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● FORD NEW HOLLAND

BSD 333H, PD 6Y, 7A	3294	<ul style="list-style-type: none"> Tractor 515, 531, 532, 535, 540 545, 550, 555, 4000, 4110, 4600 4610 	3	38-45 (52-62)	111,760	3,160 2,385 2,385 4,747		504	Cr P	R24 070 000	STD	
	6Y, 7A	4195	<ul style="list-style-type: none"> Tractor 750, 7000, 7500, 7600 7700, Loader A62 	4				69 (94)	501			P IF
		6575	<ul style="list-style-type: none"> Tractor 9200, 9260, 9600, 9700 TW-20, -25, -30, -35 	6				102-137 (138-186)	508			P
		6588	<ul style="list-style-type: none"> Tractor Major 8000, 8200, 8210 8260, 8400, 8600, 8700, TW-10 Loader A64, Excavator H48 	6				73-76 (100-104)	604			Cr P
2506 E, 2512 E BSD 333H, PD 6Y, 7A	3294	<ul style="list-style-type: none"> Tractor 515, 531, 532, 535, 540 545, 550, 555, 4000, 4110, 4600 4610 	3	38-45 (52-62)	111,760	3,160 2,385 4,747		504	Cr P	R24 100 000	STD	
	6Y, 7A	4195	<ul style="list-style-type: none"> Tractor 750, 7000, 7500, 7600 7700, Loader A62 	4				69 (94)	501			Cr P IFU
		4392	<ul style="list-style-type: none"> Tractor 6610, 6710, 7610, 7710 	4					604			Cr P
		6575	<ul style="list-style-type: none"> Tractor 9200, 9260, 9600, 9700 TW-20, -25, -30, -35 	6				102-137 (138-186)				
		6588	<ul style="list-style-type: none"> Tractor Major 8000, 8200, 8210 8260, 8400, 8600, 8700, TW-10 Loader A64, Excavator H48 	6				73-76 (100-104)				

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● GM

6.5 V8	6473	<ul style="list-style-type: none"> Blazer, C3500, Chevy Express Savana, Cuburban, Yukon Tahoe, Hummer 	V8		103,000	3,000		504	MoN IF	R64 000 000	STD
						2,000		501	P IF	R64 000 025	0,25
						4,000		604	Cr P	R64 000 050	0,50
										R64 000 075	0,75
									R64 000 100	1,00	







Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

INTERNATIONAL - CASE

BD 154	2520	<ul style="list-style-type: none"> Tractor 238, 364, 384, 414, 424, 434, 444, 2424, 2444 Forklift 7000 	4	26 (36)	88,900	2,385	2,385		500	Cr P IF	R27 000 000	STD
									501	P IF		
									501	P IF		
									601	P		
									600	P		
D 179	2933	<ul style="list-style-type: none"> 633 	3	35-39 (48-52)	98,425	3,160		500	Cr P	R27 010 000	STD	
D 239	3910	<ul style="list-style-type: none"> 684, 744, TD-8 II, 125B II 	4	45-54 (61-73)	98,425	2,385		501	P IF			
D 358	5860	<ul style="list-style-type: none"> 520, 630, 640, 515, 541, 943 Tractor 826, 886, 955, 956, 1046, 1056, 2826, 3288, 3414 Excavator 3964B, 3965B, 3966B 	6	74-101 (100-138)		4,747		604	P			

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

INTERNATIONAL - CASE

DD 99	1631	• Tractor D 320S, D 322	3	14 (20)	98,425	3,160 2,385 4,747	  	504 501 604	Cr P P IF Cr P	R27 020 000	STD
D 155, UD 155	2540	• Tractor D 353, 383, 423, 433 XV 433, XE 433, SU 533 2 WD SU 533 4WD, SU 533 V, XV 533 Wheel Tractor 533 Payloader 503	3	26-33 (36-45)							
D 179, UD 179	2933	• 240, 454, 464, 484, 523, 553 633, 2400, 4500	3	35-50 (48-68)							
DD 132	2175	• Tractor D 430S, D 432, D 40 DGD 4	4	22 (30)							
D 206, UD 206	3380	• Tractor D 258, D 584, D 554 D 644, D 645, E 733, V 733, D 884	4	43 (59)							
D 239, DT 239	3911	• 684, 744, 452, 3500, 609 TD-8 II, 125B II Tractor 856 XL	4	45-62 (61-85)							
D 310, UD 310	5070	• Crawler 165, Cotton 95, 82 Combine 431, 715, Tractor 711 D 686, D 786, D 946, D 955	6	63-78 (85-106)							
D 358	5860	• Tractor 515, 520, 541, 630, 640 826, 844, 886, 943, 955, 956 1046, 1055, 1056, 2826, 3228 Excavator 3964B, 3965B, 3966B 3984	6	66-104 (90-142)							
DT 358	5867	• 530A, 640HD, 650, 953, 1246 1255	6	84-127 (115-172)							
D 268	4388	• Tractor 270	4	56-65 (76-88)	100,000	3,160 2,385 4,747	  	504 508 604	Cr P P Cr P		
D 402	6582	• Tractor 270A, TD-8 C, 844 S, 845 Payloader 510	6	107-117 (145-160)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● JOHN DEERE

3164 DL 01, -DL 03 JD 164	2690	• Tractor 830, 930, 1020, 1030 1035, 1120, 1130, 1520, 1530 2020, 2040	3	26-41 (35-56)	102,000	3,160		504	Cr P IF	R25 000 000	STD	
						2,385		501	P IFU			
						5,000		604	Cr P			
4219 DL 01, -DL 03 4219 DL 09	3588	• Tractor 2030, 2035, 2120, 2440 3030, 3130 JD 410, JD 400 AJ	4	50-53 (68-72)								
6329 DL 01, -DL 03 JD 329	5380	• Tractor 1520, 2030, 2120, 2520 3030, 3120, 3130, 3135, 4030 Combine 6600	6	63-68 (86-92)								
3164 DL 01, -DL 03 JD 164	2690	• Tractor 830, 930, 1020, 1030 1035, 1120, 1130, 1520, 1530 2020, 2040	3	26-41 (35-56)	102,000	3,160		504	Mo P IF	R25 100 000	STD	
								2,385	501			P IFU
								5,000	604			Cr P
4219 DL 01, -DL 03 4219 DL 09	3588	• Tractor 2030, 2035, 2120, 2440 3030, 3130 JD 410, JD 400 AJ	4	50-53 (68-72)								
6329 DL 01, -DL 03 JD 329	5380	• Tractor 1520, 2030, 2120, 2520 3030, 3120, 3130, 3135, 4030 Combine 6600	6	63-68 (86-92)								
3179 D, 3239 DL 01 300 NA	2938	• Tractor 3030, 3040, 3050, 3130 3140, 3350, 3640	3	28-41 (38-56)	106,500	3,160		504	Cr P	R25 010 000	STD	
								2,385	501			P IFU
								3,470	604			Cr P
4039 D, 4239 DL 01 4239 T, 4239 TL	3920	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	4	46-67 (62-91)								
6059 D, 6068 D 6359 DL 01, -TZ 01/02 6359 T	5878	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	6	66-102 (90-139)								

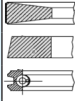
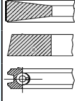
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● JOHN DEERE

3179 D, 3239 DL 01 300 NA	2938	• Tractor 3030, 3040, 3050, 3130 3140, 3350, 3640	3	28-41 (38-56)	106,500	3,160		504	Mo P	R25 110 000	STD	
	4039 D, 4239 DL 01 4239 T, 4239 TL	3920	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	4		46-67 (62-91)	2,385		501			P IFU
							3,450		604			Cr P
6059 D, 6068 D 6359 DL 01, -TZ 01/02 6359 T	5878	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	6	66-102 (90-139)								
3179 D, 3239 DL 01 300 NA	2938	• Tractor 3030, 3040, 3050, 3130 3140, 3350, 3640	3	28-41 (38-56)	106,500	3,160		504	Mo P IF	R25 040 000	STD	
	4039 D, 4239 DL 01 4239 T, 4239 TL	3920	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	4		46-67 (62-91)	2,385		501			P IFU
							3,500		604			Cr P
6059 D, 6068 D 6359 DL 01, -TZ 01/02 6359 T	5878	• Tractor 840, 940, 1040, 1140 1350, 1447, 1550, 1630, 1640 1745, 1750, 1840, 1845, 1850 1950, 2040, 2130, 2140, 2250 2450, 2650, 2850, 4050	6	66-102 (90-139)								
5310 T		• Tractor 3100, 3110, 3210, 3210X 3310, 3310X, 3410, 3410X, 5103 5103E, 5103S, 5104, 5105, 5200 5203, 5203S, 5204, 5205, 5215	3	28-41 (38-56)	106,500	2,385		504	Mo P	R25 030 000	STD	
			4	46-67 (62-91)		2,385		501	P IFU			
						3,470		604	Cr P			
6466 AF JD 762 A	6786	• Tractor 4850	6		115,900	3,947		504	Mo	R25 020 000	STD	
						3,947		511	Mo			
						4,747		604	Cr P			




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● JOHN DEERE

6466 AF	6786	• Tractor	6		115,900	3,940 2,385 4,747		504 501 604	Mo Mo IFU Cr P	R25 060 000	STD
	6786	• Tractor 4055, 4255, 4455 4555, 4560, 4755, 4760, 7700 7800, 8100, 8200, 8300, 8560	6		115,900	3,950 3,940 4,000		504 501 604	Mo P Mo IFU Cr P	R25 050 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● JCB

444 T3 TC	4400	• 3CX, 4CX	4	69 (92)	103,000	3,000		503	Cpc	R26 010 000	STD
						2,500		501	P IWU		
						3,000		604	Cr P		


















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DEUTZ

F1L 310			1		85,000	2,000		500	Cr P	R31 010 000 R31 010 050 R31 010 100	STD
F2L 310			2			2,000		501	P		0,50
F3L 310			3			2,000		501	P		1,00
F4L 310			4			5,000		603	P		
F2L 1011	1366		2	20-22 (27-30)	91,000	3,000		500	Cr P	R31 000 000 R31 000 050 R31 000 100	STD
F3L 1011	2049		3	16-33 (22-45)		2,500		501	P IFU		0,50
F4L 1011	2732		4	24-47 (33-64)		3,500		604	Cr P		1,00
F2L 1011, -F	1366		2	20-22 (27-30)	91,000	2,000		500	Cr P	R31 490 000 R31 490 050 R31 490 100	STD
F3L 1011, -F	2049		3	16-33 (22-45)		2,000		501	P IFU		0,50
F4L 1011, -F	2732		4	24-47 (33-64)		3,500		604	P		1,00
BFL 1011E BFL 1011T	2732		4		91,000	3,000		504	Cr P	R31 020 000 R31 020 050 R31 020 100	STD
						2,500		501	P		0,50
						3,500		604	Cr P		1,00
F2M 1011F	1370		2	26 (31)	91,000	3,000		504	Cr P	R31 340 000 R31 340 050 R31 340 100	STD
BF3M 1011F	2184		3	45 (70)		2,000		501	P IF		0,50
BF4L 1011F BF4L 1011FT	2730		4	48 (65)		3,000		604	Cr P		1,00
BF4M 1011F	2910		4	61 (83)							
BF4M 1012 BF6M 1012			4		94,000	3,000		504	Cr P	R31 030 000 R31 030 050 R31 030 100	STD
			6			2,000		501	P		0,50
						3,000		604	Cr P	1,00	








Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● DEUTZ

F2M 2011 F2L 2011	1550	• Industrial	2	24 (33)	94,000	2,000 3,000 3,000	  	500 508 604	Cr P P Cr P	R31 090 000	STD
F3M 2011, F3L 2011 BF3L 2011	2330	• Industrial	3	36 (49)							
F4M 2011, F4L 2011 BF4L 2011	3310	• Industrial	4	48 (66)							
FL 210			1		95,000	2,500 2,550 5,000	  	500 501 604	Cr IF IFU Cr P	R31 040 000 R31 040 050 R31 040 100	STD 0,50 1,00
F1L 712			1		95,000	2,500 2,500 5,000 5,000	   	500 501 501 604 600	Cr P IF P P P P	R31 050 000 R31 050 050 R31 050 100	STD 0,50 1,00
F2L 712			2								
F3L 712			3								
F4L 712			4								
F6L 712			6								
F1L 812	850	• D15	1	8-9 (11-12)	95,000	2,500 2,500 2,500 5,000	   	500 501 501 604	Cr P IF P P Cr P	R31 060 000 R31 060 050 R31 060 100	STD 0,50 1,00
F2L 812	1700	• D30, D2505, D3005	2	15-22 (20-30)							
F3L 812	2550	• D40, D4005, D4505	3	25-32 (33-43)							
F4L 812	3400	• D50, D5005, D6005	4	33-39 (45-53)							
F6L 812	5100	• 90D7, 90D8, 90D9, 90D11 100D7, 100D8, 100D9 100D10, 100D11	6	49-74 (66-100)							
BF4M 2013C	3802	• Stationary Engine	4	75-232 (100-326)	98,000	3,000 2,000 3,000	  	504 501 604	Cr P IW P IFU P	R31 500 000	STD
BF6M 2013 BF6M 2013C	5702	• Stationary Engine	6	75-232 (100-326)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DEUTZ

F2L 912D F2L 912W	1884	• DX36, D2506, D3006, D2807 D3607	2	21-28 (29-38)	100,000	3,000 2,500 2,500	  	504 501 508	Cr P P P	R31 070 000 R31 070 050 R31 070 100	STD 0,50 1,00
F3L 912D F3L 912W	2826	• DX50, DX55, D4006 A, D4007 D4505A, D4506A, D4507 D4897, D5006A, D5206A D5207	3	26-37 (35-50)		5,000		604	Cr P		
F4L 912D F4L 912W	3768	• DX 4.10, D5506, D6006A D6206A, D6806A, D7006A D7206A, D7007, D7207	4	43-59 (59-80)							
F5L 912D F5L 912W	4712	• DX85, DX90	5	58-74 (79-101)							
F6L 912 F6L 912D F6L 912W	5652	• DX 6.10, D7506A, D8006A D8007A, D9006A, D9009A D10006A	6	59-100 (80-136)							
F1L 511D	825		1	13 (17)	100,000	3,000 2,500 5,000	  	504 501 604	Cr P Cr P	R31 080 000 R31 080 050 R31 080 100	STD 0,50 1,00
F2L 511D	1650		2	26 (35)							
F2L 912D	1884	• DX36, D2506, D3006, D2807 D3607	2	21-28 (29-38)							
F3L 912D	2826	• DX50, DX55, D4006 A, D4007 D4505A, D4506A, D4507 D4897, D5006A, D5206A D5207	3	26-43 (35-59)							
F4L 912D	3768	• DX 4.10, D5506, D6006A D6206A, D6806A, D7006A D7206A, D7007, D7207	4	43-59 (59-80)							
F5L 912D	4712	• DX85, DX90	5	63-74 (85-101)							
F6L 912D	5652	• DX 6.10, D7506A, D8006A D8007A, D9006A, D9009A D10006A	6	59-82 (80-112)							



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● DEUTZ

F2L 912D	1884		2		100,000	2,500		504	Cr	R31 100 000 R31 100 050 R31 100 100	STD
F3L 912D	2826		3			2,500		501	P		0,50
F4L 912D	3768		4			2,500		501	P		1,00
F5L 912D	4712		5			5,000		604	Cr P		
F6L 912D	5652		6	27-82 (36-112)							
F2L 912D	1884	• DX36, D2506, D3006, D2807 D3607	2	21-28 (29-38)	100,000	3,000		504	Cr		R31 110 000 R31 110 050 R31 110 100
F3L 912D	2826	• DX50, DX55, D4006 A, D4007 D4505A, D4506A, D4507 D4897, D5006A, D5206A D5207	3	26-43 (35-59)		2,000		501	P IWU	0,50	
F4L 912D	3768	• DX 4.10, D5506, D6006A D6206A, D6806A, D7006A D7206A, D7007, D7207	4	43-59 (59-80)		3,500		604	Cr P	1,00	
F5L 912D	4712	• DX85, DX90	5	63-74 (85-101)							
F6L 912D	5652	• DX 6.10, D7506A, D8006A D8007A, D9006A, D9009A D10006A	6	59-82 (80-112)							
F1L 511			1		100,000	2,940		504	Cr P IF	R31 350 000 R31 350 050 R31 350 100	
F2L 511			2			2,000		501	P		0,50
F3L 912	2826		3	38 (52)		3,000		604	Cr P		1,00
F4L 912	3768		4	51 (69)							
F5L 912	4712		5	65 (88)							
F6L 912	5652		6	78 (106)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● DEUTZ

F4L 912 BF4L 912			4		100,000	2,940		504	Cr P IF	R31 360 000	STD
						2,500		501	P	R31 360 050	0,50
						3,500		604	Cr P	R31 360 100	1,00
F6L 912 BF6L 912			6								
F3L 913 F3L 913MD, F3L 913H	3064	• Tractor D3.50, D6007	3	42-45 (57-61)	102,000	3,000		504	Cr IF	R31 120 000	STD
						2,500		501	P	R31 120 050	0,50
						5,000		604	Cr P	R31 120 100	1,00
F4L 913 F4L 913MD, F4L 913H	4086	• Tractor DXY80, DXY3.90 D7807	4	55-64 (75-87)							
F6L 913 F6L 913MD, F6L 913H	6128	• DX3.50, DX3.90, DX6.30 D7807, DX120	6	81-96 (110-130)							
F3L 912F	3064		3	43 (59)	102,000	2,940		504	Cr IF	R31 130 000	STD
						2,550		501	P	R31 130 050	0,50
						3,500		604	Cr P	R31 130 100	1,00
F4L 912F	4086		4	62 (84)							
F5L 912F	5107		5	78 (106)							
F6L 912F	6128		6	92 (125)							
BF4L 913	4086	• DX4.70, DX80	4		102,000	2,940		504	Cr IF	R31 140 000	STD
						3,000		501	P	R31 140 050	0,50
						3,500		604	Cr P	R31 140 100	1,00
BF6L 913C	6128		6								
BF4L 913, BF4L 913C	4086	• DX4.70, DX80	4	64-92 (87-126)	102,000	3,000		504	Cr	R31 150 000	STD
						3,000		511	Cr	R31 150 050	0,50
						3,500		604	Cr P	R31 150 100	1,00
BF6L 913, BF6L 913C	6128	• M160 L81, M160 M13 M168 M8	6	107-131 (145-178)							
BF4L 913	4086		4		102,000	3,000		504	Cr	R31 160 000	STD
						3,000		501	P	R31 160 050	0,50
BF6L 913	6128		6			5,000		604	Cr P	R31 160 100	1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● DEUTZ

F3L 913	3064	•	3	45 (61)	102,000	3,000		504	Cr	R31 170 000 R31 170 050 R31 170 100	STD
F4L 913 BF4L 913T	4086	• DX4.50, DX86	4	55-64 (75-87)		2,500		501	Cr		0,50
F6L 913 BF6L 913T	6128	• DX3.50, DX3.90 D7807, DX120	6	81-96 (110-130)		2,500		501	P		1,00
F3L 913	3064	•	3	45 (61)	102,000	3,000		504	Cr	R31 180 000 R31 180 050 R31 180 100	STD
F4L 913 BF4L 913T	4086	• DX4.50, DX86	4	55-64 (75-87)		2,500		501	P		0,50
F6L 913 BF6L 913T	6128	• DX3.50, DX3.90 D7807, DX120	6	81-96 (110-130)		2,500		501	P		1,00
BF6L 913FC	6128	• D2506, D5206, D7506	6		102,000	3,000		504	Cr P	R31 190 000 R31 190 050 R31 190 100	STD
						3,000		511	Cr P		0,50
						2,500		501	P IW		1,00
						5,000		604	Cr P		
BF6L 913C	6128		6	131 (178)	102,000	2,940		504	Cr P	R31 330 000 R31 330 050 R31 330 100	STD
						3,000		511	Cr p		0,50
						3,000		604	Cr P		1,00
BF4M 1013	4760		4	63-190 (85-258)	108,000	3,000		504	Mo IW	R31 390 000 R31 390 050	STD
BF6M 1013	7140		6			2,000		501	P IFU		0,50
						3,500		604	Cr P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DEUTZ

F/A 1L 514	1330		1	13 (18)	110,000	3,000		500	Cr P	R31 200 000 R31 200 050 R31 200 100	STD
F/A 2L 514	2660		2	27 (36)		3,000		501	P		0,50
F/A 3L 514	3990		3	40 (54)		3,000		508	P		1,00
F/A 4L 514	5322		4	53 (72)		6,000		601	P		
F/A 6L 514 / -614	7980		6 V6	81 (110)		6,000		600	P		
F/A 8L 614	10640		V8	108 (147)							
F/A 12L 614	15960		V12	162 (220)							
F6L 413, AL 413	8480	• Series 120, 170	V6	120-130 (163-176)	120,000	3,000		500	Cr P	R31 230 000	STD
F8L 413, F8L 714A	11310	• Series 200, 210, 230, 232	V8	120-171 (163-232)		3,000		501	P		
F10L 413	14140	• Series 290, 310	V10	200-225 (272-305)		3,000		508	P		
F12L 413	16960	• Series 340	V12	240-250 (326-340)		6,000		604	Cr P		
F4L 413R	5880	• 130D	4	90 (128)	120,000	3,500		504	Cr	R31 240 000	STD
F5L 413R	7350	• 130D	5	112 (152)		3,000		501	P		
F6L 413R, F6L 413L	8820	• 130D	V6	137 (183)		3,000		501	P		
F8L 413L	11760		V8	180 (244)		6,000		604	Cr P		
F10L 413L	14700		V10	199-225 (270-305)							
F12L 413L	17640	• 270D, 310D, 340D	V12	270 (366)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DEUTZ

F4L 413R, F4L 413R	6378		4	83-94 (113-128)	125,000	3,000		504	Cr	R31 260 000	STD
						2,500		501	P	R31 260 050	0,50
						4,000		604	Cr	R31 260 100	1,00
F5L 413F, F5L 413FR	7976		5	109-118 (148-160)							
F6L 413F, F6L 413FR F6L 413FRW /-FW BF6L 413FRC /-RC BF6L 513C	9572	• DX8.20, D2304	6 V6	112-177 (152-240)							
F8L 413F, F8L 413FW BF8L 413F, BF8L 513C	12763	• Series 190, 250, 260, 290, 320 360, 2000, 4520, 4530, 4550 4620, 8000	V8	150-235 (204-320)							
F10L 413F, /-FW BF10L 413F BF10L 513C	15945	• Series 190, 320, 360	V10	188-294 (255-400)							
F12L 413F BF12L 413F BF12L 513C	19140	• 3000, 3500, N4520, N4530 N4540, N4550, N4620 360D 34 AS, 360D 45 AS 192M 14FL, 256D 16AK 256M 19FL /-22FLL 260T 117, 260L 117 320M 16FSL /-FS, 320D 19AK	V12	282-353 (384-480)							
BF6L 413	9572		6		125,000	3,000		504	Cr P	R31 270 000	STD
						3,000		501	P IWU	R31 270 050	0,50
BF8L 413	12763		V8			4,000		604	Cr P	R31 270 100	1,00
BF10L 413	15945		V10								
BF12L 413	19140		V12								
BF6L 513	9572		6		125,000	3,500		504	Cr P	R31 280 000	STD
						3,000		501	P IWU	R31 280 050	0,50
BF8L 513	12763		V8			4,000		604	Cr P	R31 280 100	1,00
BF10L 513	15945		V10								
BF12L 513	19140		V12								



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● DEUTZ

BF6L 513	9572		V6	182 (248)	125,000	3,500 2,500 4,000		504	Cr P	R31 290 000 R31 290 050 R31 290 100	STD		
								501	P IWU		0,50		
								604	Cr P		1,00		
BF8L 513	12763		V8	243 (330)									
BF10L 513	15945		V10	304 (413)									
BF12L 513	19140		V12	365 (496)									
F6L 513 F/BF6L 513	10038	• Industrial	V6	141-192 (192-261)	128,000	3,500 3,000 4,000		504	Cr P	R31 410 000	STD		
F8L 513 F/BF8L 513	13384	• Industrial	V8	188-212 (256-288)								501	P
F10L 513 F/BF10L 513	16730	• Industrial	V10	235-265 (320-360)								604	Cr P
F12L 513 F/BF12L 513	20076	• Industrial	V12	282-318 (384-433)									
A/BA6M 816 A/BA6M 816U, -W, -R	15204		6	200-324 (272-444)	142,000	4,000 3,000 6,000		504	Cr P	R31 320 000	STD		
A/BA8M 816, -C	20272		8	265-638 (360-867)								501	P
A/BA12M 816, -C	30408		V12	401-950 (545-1292)								604	Cr P
A/BA16M 816, -C, -CR A/BA16M 816CR, -U A/BA16M 816W, -R	40544		V16	531-1270 (721-1727)									




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● LADA

2101	1198	• Nova Junior, 1200	4	55-57 (75-77)	76,000	1,500		500	Cr S	R34 000 000	STD	
						2,000		508	P		R34 000 040	0,40
1111, 2104	1451	• 1500	4	44-46 (60-62)	76,000	3,940		700	Cr P S	R34 000 060	0,60	
										R34 000 080	0,80	
		R34 000 100								1,00		
2106, 21067	1294	• Nova, Nova C, 1300	4	48-52 (65-70)	79,000	1,500		500	Cr S	R34 010 000	STD	
						2,000		508	P		R34 010 040	0,40
2106, 21067	1568	• Niva, Taiga, 1600	4	57-59 (78-80)	79,000	3,940		700	Cr P S	R34 010 060	0,60	
										R34 010 080	0,80	
										R34 010 100	1,00	
2111, 2112, 2123 21114, 21124 11113	1488	• Samara 1.5, Shiguli	4	55 (75)	82,000	1,500		500	Cr S	R34 020 000	STD	
						2,000		508	P		R34 020 040	0,40
						3,940		700	Cr P S	R34 020 060	0,60	
										R34 020 080	0,80	
										R34 020 100	1,00	
21126	1596	• Lada 2170/2172 Priora 16v Kalina Sport 1.6	4	72 (98)	82,000	1,200		500	Nit S	R34 040 000	STD	
						1,500		508	P		R34 040 050	0,50
						2,000		700	Nit S			
XUD 9 A	1905	• Niva 1900 D	4	47-52 (64-71)	83,000	2,000		500	Cr S	R34 030 000	STD	
						2,000		501	P		R34 030 025	0,25
						3,000		604	Cr	R34 030 050	0,50	
										R34 030 100	1,00	
XUD 9 SD	1905	• Niva 1900 D	4	55 (75)	83,000	3,000		504	Cr P	R34 050 000	STD	
						2,000		501	P			
						3,000		604	Cr P			
















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● LANDROVER

18 K4F	1796	<ul style="list-style-type: none"> Freelander 1.8 16V 4x4 Freelander 1.8i 16V 4x4 Freelander Soft Top 1.8i 16V 4x4 	4	85-88 (116-120)	80,000	1,000		500	Cr P S	R35 080 000	STD
								508	P		
								700	Nit S		
25 K4F	2497	<ul style="list-style-type: none"> Freelander 2.5 V6 4x4 	V6	129-130 (175-177)	80,000	1,200		500	Cr P	R35 100 000	STD
								508	P		
								700	Cr P S		
2.7 LION TVM	2720	<ul style="list-style-type: none"> Discovery 2.7 TDI Range Rover 2.7 TDV6 	4	150 (204)	81,000	2,000		500	Cr P IF	R35 140 000	STD
								501	P IFU		
								604	Nit S		
30DDTX 306DT Euro 5 TDV6	2993	<ul style="list-style-type: none"> Discovery IV 3.0 SDV6 Discovery IV 3.0 TD Discovery V 3.0 D Range Rover IV 3.0 D Range Rover IV 3.0 TD Range Rover Sport 3.0 D Range Rover Velar 3.0 D300 	V6	155-200 (211-340)	84,000	2,000		500	Cr S	R35 060 000	STD
								501	P IFU		
								604	Nit S		
AJD V6-DT20	2993	<ul style="list-style-type: none"> Discovery IV 3.0L 	6	155 (211)	84,000	1,750		500	Cr S	R35 010 000	STD
								501	P IFU		
								604	Nit S		
TD6 / M57 D30	2926	<ul style="list-style-type: none"> Discovery 	6	130-142 (177-193)	84,000	3,000		504	Cr P	R35 160 000	STD
								508	P		
								604	Cr P		
TD5	2495	<ul style="list-style-type: none"> Defender Cabrio 2.5 Td5 4x4 Defender Pickup 2.5 Td5 4x4 Defender SW 2.5 Td5 4x4 Discovery II 2.5 Td5 4x4 	5	90-102 (122-139)	84,450	3,000		503	CrN P	R35 020 000	STD
								508	P		
								604	Cr P S		
14P, 15P	2495	<ul style="list-style-type: none"> Defender Cabrio 2.5 Td5 4x4 Defender SW 2.5 Td5 4x4 	5	90 (122)	84,450	3,000		504	Cr P	R35 150 000	STD
								508	P		
								604	Cr P S		
DW12 BTED 4	2179	<ul style="list-style-type: none"> Freelander 2 2.2TD4 	4	110 (150)	85,000	2,500		505	Cr P	R35 000 000	STD
								501	P IFU		
								604	Nit S		










Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● LANDROVER

204PT Euro 5	1999	<ul style="list-style-type: none"> Range Rover Evoque 2.0 4x4 Discovery Sport 2.0 4x4 Range Rover Sport 2.0 GTDI 4x4 Freelander 2 2.0 Si4 4x4 	4	176-179 (240-243)	87,500	1,200		500	CrB P S	R35 090 000 R35 090 050	STD
						1,500		501	P S		0,50
						2,000		700	Nit S		
204PT	1999	<ul style="list-style-type: none"> Discovery Sport 2.0 T Range Rover Evoque 2.0 4x4 	4	176 (240)	87,500	1,200		500	CrB P S	R35 170 000 R35 170 050	STD
						1,200		501	P S		0,50
						2,000		700	Nit S		
DT244 - Duratorq	2402	<ul style="list-style-type: none"> Defender 2.4 Td4 	4	90 (122)	89,910	2,000		500	Cr P	R35 120 000 R35 120 050	STD
						2,000		508	P		0,50
						2,000		604	Nit S		
	2486	<ul style="list-style-type: none"> Land Rover 90 4WD Land Rover 110 4WD 	4	83 (113)	90,475	1,780		500	Cr P IF	R35 030 000 R35 030 025 R35 030 050 R35 030 075 R35 030 100	STD
						1,780		508	P		0,25
						4,747		604	Cr P		0,50
											0,75
Gemini III DI / TCI	2495	<ul style="list-style-type: none"> Land Rover 300 TDI 	4	83 (113)	90,475	3,000		505	Cr	R35 050 000 R35 050 025 R35 050 050 R35 050 100	STD
						2,500		508			0,25
						3,000		604	Cr		0,50
										1,00	

























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● LIEBHERR

D 904 T, D 904 TB D 904 NA	5608		4	60-99 (82-135)	115,000	3,000 2,500 4,000	  	504 501 604	Cr P Cr P Cr P	R75 000 000	STD
D 906 T, D 906 TB D 906 NA	8412		6	112-147 (152-200)							
D 934 S D 924 TI, D 924 TI-E	6356	• Excavator A/R 924 Litronic Excavator HS 833 HD L 544	4	127-180 (173-245)	122,000	3,500 2,500 4,000	  	504 501 604	Cr P Cr P Cr P	R75 010 000	STD
D 936 S D 926 TI-E	9960		6	225-240 (306-326)							
D 9400 TI-E D 9400 TI-E A5 D 9406 TI /TI-E	12882		6	330 (449)	135,000	4,000 2,500 4,000	  	504 501 604	Cr P P Cr P	R75 020 000	STD
D 9408 TI D 9408 TI-E A5	17177		8	330-440 (449-598)							









Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● LOMBARDINI

15LD 315 196 LDA 326			1	5 (7)	78,000	2,000		500	Cr S	R36 070 000 R36 070 050 R36 070 100	STD	
						2,000		501	P		0,50	
						3,000		604	Cr P		1,00	
3LD 450 LDA 450, LDA 455 3LD 510 LDA 510, LDA 513	454		1	6-8 (8-10)	85,000	2,000		500	Cr P	R36 000 000 R36 000 050 R36 000 100	STD	
						2,000		501	IF		0,50	
	510					2,000		501	IF		1,00	
						4,000		604	Cr P			
3LD 450 3LD 510.1	454		1	6-8 (8-10)	85,000	2,000		500	Cr P	R36 050 000 R36 050 050 R36 050 100	STD	
						2,000		501	IF		0,50	
	510					4,000		604	Cr P		1,00	
6LD 400.1 10LD 400.2 10LD 400.3	395		1	6 (9)	86,000	2,000		500	Cr P	R36 060 000 R36 060 050 R36 060 100	STD	
			2			2,000		501	P		0,50	
			3			4,000		605	P		1,00	
11LD 535.3			1		88,000	2,000		500	Cr S	R36 090 000 R36 090 050 R36 090 100	STD	
							2,000		501		P IF	0,50
							4,000		604		Cr P	1,00
4LD 640 LDA 670, LDA 96 LDA 672, LD 675.2 LDA 673, 5LD 675.3 LDA 674, 5LD 675.4			1		95,000	3,000		500	Cr	R36 010 000 R36 010 050 R36 010 100	STD	
							3,000		501		P	0,50
			1346			2	3,000		501		P	1,00
							5,000		604		Cr P	
	2019		3									
	2692		4									
LDA 720 LDA 723 LDA 725			1		95,000	2,500		500	Cr IF	R36 020 000 R36 020 050 R36 020 100	STD	
							2,500		501		IF	0,50
							2,500		501		IF	1,00
							5,000		604		Cr P	

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● LOMBARDINI

LDA 100 4LD 705, 5LD 105	707		1		100,000	3,000 2,500 2,500	  	500 501 501	Cr P IF P P	R36 030 000 R36 030 050 R36 030 100	STD 0,50 1,00
5LD 825.2, T832	1648		2			5,000		604	P		
5LD 825.3, T833	2472		3								
5LD 825.4, T834	3296		4								
4LD 820 LDA 820 LDA 825	817		1		102,000	3,000 2,500 2,500 5,000	   	500 501 501 604	Cr P P Cr P	R36 040 000 R36 040 050 R36 040 100	STD 0,50 1,00





























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● LISTER

			1		76,000	2,000 2,000 3,000	 	500 501 604	Nit P IFU P	R37 160 000 R37 160 050 R37 160 100	STD 0,50 1,00
LPA			2 3	5-17 (6-23)	76,000	1,750 2,000 4,000	 	500 501 604	Cr P P Cr P	R37 010 000 R37 010 050 R37 010 100	STD 0,50 1,00
AD, LD			1		76,200	3,160 2,385 2,385 3,947 3,947	 	514 501 501 600 600	Cr P P IFU P IFU P P	R37 000 000 R37 000 050 R37 000 100	STD 0,50 1,00
AC1			1 2		76,200	1,750 2,000 3,947	 	500 508 603	Cr P P P	R37 130 000 R37 130 050 R37 130 075 R37 130 100	STD 0,50 0,75 1,00
AD1			1 2		80,000	1,750 2,000 3,947	 	500 508 604	Cr P P Cr P	R37 140 000 R37 140 050 R37 140 075 R37 140 100	STD 0,50 0,75 1,00
LT			1		82,550	2,385 1,990 3,947 3,947	 	514 501 604 600	Cr P P Cr P P	R37 020 000 R37 020 025 R37 020 050 R37 020 100	STD 0,25 0,50 1,00
LV			1 2 3		85,725	2,385 1,990 3,947	 	500 501 604	Cr P P Cr P	R37 150 000 R37 150 025 R37 150 050 R37 150 100	STD 0,25 0,50 1,00
LPW, LPWS, LPWG LPWG T		● Alpha	2 3 4	8-31 (10-41)	86,000	1,750 2,000 4,000	 	500 501 604	Cr P P Cr P	R37 110 000 R37 110 025 R37 110 050 R37 110 100	STD 0,25 0,50 1,00















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● LISTER

SR			1		88,900	3,160		514	Cr P	R37 030 000 R37 030 050 R37 030 100	STD
						2,385		501	P		0,50
						2,385		501	P		1,00
						3,947		600	P		
						3,947		600	P		
			2 3 4		90,000	2,000		500	Nit	R37 170 000 R37 170 050 R37 170 100	STD
						2,000		501	P IFU		0,50
						3,000		604	Cr P		1,00
ST			1		95,250	3,160		514	Cr P	R37 040 000 R37 040 025 R37 040 050 R37 040 075 R37 040 100	STD
						2,385		501	P		0,25
						2,385		501	P		0,50
						4,747		604	Cr P		0,75
						4,747		601	P		1,00
TS			1 2 3 4		95,250	3,160		514	Cr P	R37 120 000 R37 120 025 R37 120 050 R37 120 075 R37 120 100	STD
						2,385		500	P IW		0,25
						4,747		604	Cr P		0,50
											0,75
PJ			1 2 3		96,825	2,385		500	Cr	R37 180 000 R37 180 025 R37 180 050 R37 180 075 R37 180 100	STD
						2,385		501	P IWU		0,25
						2,385		501	P IWU		0,50
						4,747		604	Cr		0,75
TR			1 2 3 4		98,425	3,160		514	Cr P	R37 090 000 R37 090 025 R37 090 050 R37 090 075 R37 090 100	STD
						2,385		501	P		0,25
						4,747		604	Cr P		0,50
											0,75
HA, HB, HW			1		101,600	4,747		514	Cr P	R37 050 000 R37 050 050 R37 050 100	STD
						3,160		501	P		0,50
						3,160		501	P		1,00
						4,747		601	P		
						4,747		601	P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● LISTER

HR			1		107,950	3,947		514	Cr P	R37 060 000 R37 060 050 R37 060 100	STD
						3,160		501	P		0,50
						3,160		501	P		1,00
						4,747		604	Cr P		
						4,747		600	P		
5/1, 6/1 10/2, 12/2			1		114,300	3,160		500	P	R37 070 000 R37 070 050 R37 070 100	STD
						3,160		500	P		0,50
						3,160		500	P		1,00
						3,160		500	P		
						4,747		600	P		
8/1, 16/2JP			1		114,300	4,747		514	P	R37 080 000 R37 080 050 R37 080 100	STD
						3,160		500	P		0,50
						3,160		500	P		1,00
						4,747		600	P		




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

MAN

D 0836 M, HM			6		108,000	3,000 2,500 2,500 5,000		504 501 508 604	Cr P P P Cr P	R39 060 000	STD
D 0834 LFL, LOH	4580	<ul style="list-style-type: none"> 8.145, 9.145, 10.145, 12.145 8.185, 10.185, 12.185, LE140 	4	103-132 (162-206)	108,000	3,000 2,500 3,000		504 501 604	Mo P Cr P	R39 280 000	STD
D 0836 LF 01, 02, 03, 04, 05	6871	<ul style="list-style-type: none"> 12.284, 14.284, 15.284, 18.284 20.284, 23.284, 25.284 12.255, 14.255, 15.255, 18.255 20.255, 25.255, 26.255, LE250 	6	162-206 (220-280)							
D 0836 M, MH, MU HM3, HM, HMN HMU, HM2, HM7	7030	<ul style="list-style-type: none"> 635, 650, 735, 850 	6	99-115 (135-156)	108,000	2,500 2,500 5,000		500 501 604	Cr P Cr P	R39 070 000	STD
D 0846 HM2, HMN2, HMY	7252	<ul style="list-style-type: none"> 8.156, 8.160H, 8.160F, 9.156 9.160, 13.168, 15.168, 16.168 750 H0-SL, SG192, SL192 CR160, UE590 	6	93-118 (127-160)							
D 0824 Euro 1 D 0824 LFL 2 Euro 2	4580	<ul style="list-style-type: none"> 8.153F, 8.163, 9.153F, 9.163F 12.163 	4	118 (160)	108,000	3,000 2,500 4,000		504 501 604	Cr P P Cr P	R39 080 000	STD
D 0826 LF 01, 02, 04, 06 LUH 04, LUH 213 LOH, TF, TOH	6590	<ul style="list-style-type: none"> 10.153F, 10.163F, 17.232 18.232 	6	142-169 (192-230)							
D 0826 FG 01, 02 LE 51, 52 WE 51, TUE 51 LUE 51 LFL 03, 11 LUH 11 Euro 2 LFB 15 EVB	6871	<ul style="list-style-type: none"> 8.224F, 17.232 Tractor 	6	132-169 (180-230)							
D 0824 GF 01, 02, 03	4580		4	75 (102)	108,000	2,500 2,500 4,000		500 501 604	Cr P P Cr P	R39 230 000	STD
D 0826 GD 01, 02, 03 GD 01, 02, 03 GF 04 Euro 1, GF, OH LUH 213, LOH	6871	<ul style="list-style-type: none"> F90, G90, M90 6.100 FK 310, -360, -340 9.150 FK 310, -360, -340 10.150 FK 360, -425, -460, -510 	6	110-114 (150-155)							









Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MAN

D 1146			6	152 (205)	111,000	3,500 3,000 4,000	  	504 501 604	Cr P P Cr P	R39 240 000	STD
D 2066 LOH, LUH, LF	10520	• TGA 18.390, TGA 18.430	6	228-397 (310-540)	120,000	3,500 3,000 4,000	  	504 508 604	Cr P P Cr P	R39 290 000	STD
D 2146 HM HM, M, M II	9659	• 770 L1, 780 H, 1070 L1, 1080 H 2170 L1 D, 10210 TLA / TL1 10212 H, 3100, 3500, 4100 4500, 4600, 4900, 5200	6	126-156 (172-212)	121,000	3,500 3,000 3,000 5,500	   	500 501 506 604	Cr P P P Cr P	R39 270 000	STD
D 2156 HM, HMN, MGN MY, MNY, MYN HNY, HM2, HM3 HMN3, HM9, HMN9 HMXU 036 / 038	10349	• 9.192, 9.216, 10.215, 12.192 12.215, 13.215, 13.230, 15.192 15.216, 16.816, 16.192, 16.215 21.215, 22.215 SL 192, SG 192, 10 UE 192 11 UE 192, 12 UE 192 22.192 FN, 22.192 FNL	6	141-169 (192-230)	121,000	3,500 3,000 3,000 5,500	   	504 501 506 604	Cr P P Cr	R39 090 000	STD
D 2156 MT, MTN, MTX	10344	• 13.256 F, 16.256 F, 19.256 F 22.256 F, 26.256 F, 30.256 F	6	188 (256)							
D 10 UT 150 Euro 2 RABA	10350	• Ikarus, IK280 Raba	6	150 (204)	121,000	3,500 2,000 3,500	  	504 501 604	Cr P Cr P Cr P	R39 250 000	STD
D 2356 HM2, HM9 HM10, HMN2, HMX	10690	• 10.230 FL, 12.230 FL, 13.230 FL 16.230 FNS, 19.230 DF 22.230 F, 20.230 F, SG 192 SUE 230, 11 UE 192, 12 UE 192	6	169 (230)	123,000	3,500 3,000 3,000 5,500	   	504 501 506 604	Cr P P Cr	R39 100 000	STD
D 2366	10690		6	169 (230)	123,000	3,500 3,000 4,000	  	504 501 604	Cr P Cr	R39 110 000	STD
D 2538 M, ME, MF	12756	• 16.256, 19.256, 26.256 30.256	8	160-188 (218-256)	125,000	3,000 3,000 5,000	  	500 501 604	Cr P P Cr P	R39 120 000	STD
D 2530 ME, MF, MXF	15945	• 16.320, 19.320, 20.320 22.320, 26.320, 30.320 32.320, 38.320, DFK 3875 DF 4525, DF 5175	10	156-235 (212-320)							



Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MAN

D 2538 MT, MTE, MTH	12763	• 16.320, 19.320, 26.320 30.320	8	223-294 (303-400)	125,000	3,000		504	Cr P	R39 130 000	STD
D 2530 MTE, MTXF	15945	• 16.320, 19.320, 20.320 22.320, 26.320, 30.320 32.320, 40.320	10	178-235 (242-320)	125,000	3,000		506	P	R39 130 000	STD
D 2555 M, ME, MF, MX, MUH	9199	•	5	123-141 (168-192)	125,000	3,000		504	Cr	R39 140 000	STD
D 2565 M, ME, MF, MFR MR, MUE, HM MUH, MUL	9510	• 11.168, 13.168, 13.192 14.168, 14.192, 15.168 15.192, 16.168, 16.192 22.192	5	92-141 (125-192)	125,000	3,000		501	P		
D 2556 M, MX, MXF MXH, MUH	11100	• 12.168, 13.168, 13.192 15.168, 15.192, 15.200 15.240, 16.168, 16.200 16.240, 19.168, 19.200 19.240, 22.240, 26.240 SD 200, SL 200, SUE 200 SR 240, SUE 240	6	147-176 (200-240)	125,000	3,000		504	Cr		
D 2566 HM, M, ME, MH MXF, MF, MUL, MUE MUH, MFO, MFOR MFR, MUM	11407	• 15.240, 16.240, 19.240 22.240, 26.240, 30.240 SG 192, SL 200, SD 200 SG 220, SUE 240, SR 240 SUE 240	6	125-177 (170-240)	125,000	3,000		504	Cr		
										5,000	
G 2566	11412	•	6	147 (200)	125,000	3,000		504	Cr		

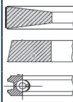
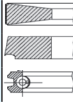
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MAN

D 2555 M, ME, MF, MX, MUH	9199	•	5	123-141 (168-192)	125,000	3,000 3,000 5,000		504	Cr S Fe	R39 150 000	STD			
	D 2565 M, ME, MF, MFR MR, MUE, HM MUH, MUL	9510	• 11.168, 13.168, 13.192 14.168, 14.192, 15.168 15.192, 16.168, 16.192 22.192	5				92-141 (125-192)	508			P		
		D 2556 M, MX, MXF MXH, MUH	11100	• 12.168, 13.168, 13.192 15.168, 15.192, 15.200 15.240, 16.168, 16.200 16.240, 19.168, 19.200 19.240, 22.240, 26.240 SD 200, SL 200, SUE 200 SR 240, SUE 240				6	147-176 (200-240)			604	Cr P	
			D 2566 HM, M, ME, MH MXF, MF, MUL, MUE MUH, MFO, MFOR MFR, MUM	11407				• 15.240, 16.240, 19.240 22.240, 26.240, 30.240 SG 192, SL 200, SD 200 SG 220, SUE 240, SR 240 SUE 240	6			125-177 (170-240)		
				G 2566				11412	•			6	147 (200)	
D 2565 D 2566 MT, MTE, MLE, MFT MTH, MTU, MTF, MK MTUM, MTUE, MUF MKUL, MTUH, LUM MKF, MKUH, KUL MLUH, MTHO D 2566 UH, BUH	9510		5	169 (230)	125,000	3,500 3,000 5,000		504	Cr	R39 170 000	STD			
	D 2566 MT, MTE, MLE, MFT MTH, MTU, MTF, MK MTUM, MTUE, MUF MKUL, MTUH, LUM MKF, MKUH, KUL MLUH, MTHO	11407	• 19.281, 19.280, 19.321 22.280, 22.281, 22.321 26.280, 26.281, 26.321 30.280, 32.280, 32.281	6				162-235 (220-320)	508			P		
		D 2566 UH, BUH	11413	• SG 220, SG 240 240 M 10, 240 M 12				6	147-177 (200-240)			604	Cr P	

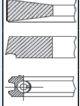
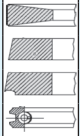
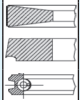
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MAN

D 2676 LF 04	12412	<ul style="list-style-type: none"> TGA 41.440, 40.440, 33.440 27.440, 26.440, 19.440 TGS 41.440, 40.440, 33.440 26.440, 21.440, 19.440 	6	324 (440)	126,000	4,000 3,000 4,000		504	Cr P	R39 210 000	STD	
	D 2676 LF 01, LF 02, LF 03 LF 05, LF 07, LF 12 LF 14, LF 16	12412	<ul style="list-style-type: none"> TGA 41.480, 39.480, 37.480 35.480, 33.480, 32.480 26.480, 24.480, 18.480 TGS 41.480, 40.480, 37.480 35.480, 33.480, 32.480 28.480, 26.480, 24.480 21.480, 19.480, 18.480 TGX 35.480, 33.480, 28.480 26.480, 24.480, 18.480 	6				353 (480)	501			Cr P
		D 2676 LF 06, LF 11, LF 13	12412	<ul style="list-style-type: none"> TGA 41.540, 28.540, 26.540 24.540, 18.540 TGS 41.540, 37.540, 35.540 33.540, 28.540, 26.540 TGX 41.540, 35.540, 33.540 28.540, 26.540, 24.540 18.540 				6	397 (540)			604
D 2866	11967	<ul style="list-style-type: none"> 26.414, F 2000, NG 312 NG 313, NL 313, NUE 353 R 313, UEL 313 	6	191-309 (260-420)	128,000	4,000 3,000 4,000		504	Cr P	R39 260 000	STD	
D 2876	12816	<ul style="list-style-type: none"> F 2000, 19.462, 19.463 	6	294-338 (400-460)				508	P			
D 2840 LF 20 Euro 2	18273	<ul style="list-style-type: none"> 19.603, 26.603 	6	441 (603)				604	Cr P			
D 2842	21930		V10	446-587 (607-798)								

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MAN

D 2865 L, LOH, LU, LF -01, 02, 03, 04, 06	9972	• 19.343	5	213-250 (290-340)	128,000	3,500		504	Cr	R39 180 000	STD
								508	P		
								604	Cr		
D 2866 F, FG, FR, OH, UH UM, KOH, KUH, KU KUL, KFZ, LF, LFZ LFZR, LOCH, LU, LUL TUH, TUM, K, KF LUH, LXF, TOH LF /01, 02, 03, 05 LF /06, 07, 09 LF /14, 16, 20 Euro 2 LU /01, 03, 04 LXUH, LXOH, LXFG LX, LFG, LXF, RXF	11967	• 19.361, 19.332, 19.362 19.291, 19.292, 19.331 22.330, 22.331, 22.332 22.360, 22.361, 22.362 24.362, 26.281, 26.291 26.331, 26.331, 26.361 32.331, 32.361, 33.361 34.291, 34.331, 19.422 25.362 200, 202, 240, 242, 280, 290 292, 322, 332, 362, 363 F 2000 Marine, Industry	6	176-324 (239-440)							
D 2848 LE, T, LXE, LYE, LZE	14618	• Marine, Industry	V8	500 (680)							
D 2840 LE, LET, LF, LXF, LXE LYE, LZE, T LF 06 Euro 1	18270	• 19.462, 19.502 Marine, Industry	V10	294-603 (400-820)							
D 2842 LXE, LYE, LZE, MLE LE 20, LE 21	21930	• Marine, Industry	V12	375-735 (510-1000)							
D 2858 M, X 090	15450	• 13.304 DFS, 16.304 FN, FNS, G 19.304 DF, DFS, G, N 22.304 DFSA, 25.304, 26.304	V8	223 (304)	128,000	3,500		504	Cr P	R39 190 000	STD
								501	P		
D 2858 MT	15442	• Industry	V8	250 (340)							
D 2848 M, MH, TF	14618	•	V8	206 (280)	128,000	3,500		504	Cr P	R39 200 000	STD
								508	P		
								604	Cr P		
D 2840 MF, MFR, MH, ME	18270	• Marine, Industry	V10	245-268 (333-364)							
D 2842 ME	21930	• 26.315, 32.365, 40.365	V12	275-338 (375-460)							




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

M 160 E 06	599	• Smart For Two, Crossblade	3	33-52 (40-71)	63,500	1,200		500	Cr P S	R40 790 000 R40 790 025 R40 790 050	STD
						1,500		501	P		0,25
						2,500		700	Cr P S		0,50
M 132 E 10 M 132 E 10 AL 3 B 21	999	• Smart 1.0	3	45-62 (61-84)	72,000	1,000		500	NitB S IF	R40 010 000	STD
1,200		508	P								
2,000		604	Nit S								
M 166 E 14.940	1397	• A 140	4	60 (82)	80,000	1,200		500	Cr S	R40 590 000 R40 590 025 R40 590 050	STD 0,25 0,50
M 166 E 16.960	1598	• A 160, Vaneo	4	75 (102)	1,500		501	P			
3,000		700	Cr P S								
OM 668 DE 17 LA	1689	• A 160, A 170 Vaneo CDI	4	55-70 (75-95)	80,000	2,000		500	Cr P IF	R40 600 000 R40 600 050 R40 600 075 R40 600 100	STD 0,50 0,75 1,00
2,000		501	P IF								
3,000		604	Cr P								
R9M 402	1598	• C series	4	96 (130)	80,000	2,000		503	Cr P	R40 610 000 R40 610 050	STD 0,50
1,750		501	P IF								
2,000		604	Cr P								
M 275.950	5513	• S 600, SL 600, CL 600	12	380 (517)	82,000	1,200		500	Nit S	R40 020 000	STD
1,500		508	P								
2,000		700	Nit S								
M 271 E18 948	1796	• C200, C230, CLK200 E200 Kompressor	4	141 (192)	82,000	1,200		500	NitB S	R40 090 000 R40 090 050	STD 0,50
1,500		501	P								
2,500		700	Nit S								
M 103 E 26	2599	• 190 E 2.6, 260 E, 260 SE 300 E 2.6	6	110-125 (150-170)	82,900	1,500		500	Cr S IF	R40 000 000 R40 000 050	STD 0,50
1,750		508	P								
3,000		604	Cr P								
OM 640.939	1493	• 1.5 CDI	3	50-70 (68-95)	83,000	2,000		500	Cr P IF	R40 130 000	STD
2,000		501	P IFU								
2,000		604	Cr P								
OM 640.940 OM 640.941 OM 640.942	1991	• A160 CDI A180 CDI, B180 CDI A200 CDI, B200 CDI	4	60-103 (82-140)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

OM 642.910 /920 OM 642.921 /930 OM 642.932 /940 OM 642.950 /960 OM 642.961 /970	2987	<ul style="list-style-type: none"> CLS320 CDI, E280 CDI E320 Bluetec, E320 CDI 	6	155-165 (211-224)	83,000	2,000	  	505 501 604	Cr P IF P IFU Nit S	R40 140 000	STD
OM 651.911 /912 OM 651.913 /916	2143	<ul style="list-style-type: none"> C180 CDI, C200 CDI, C220 CDI C250 CDI, CLS250 CDI E200 CDI, E220 CDI 	4	92-110 (125-150)	83,000	2,000 1,750 2,000	  	500 501 604	Cr P IF P IFU Cr P	R40 210 000 R40 210 025 R40 210 050	STD 0,25 0,50
M 112.910 M 112.911	2398	<ul style="list-style-type: none"> C240 C Class E240 E Class 	4	125 (170)	83,200	1,500 1,750 3,000	  	500 508 700	NitB S P Nit S	R40 500 000 R40 500 050	STD 0,50
M 166 E 19	1898	<ul style="list-style-type: none"> A 190 	4	92 (125)	84,000	1,200 1,750 2,500	  	500 508 700	Nit S P Nit S	R40 620 000 R40 620 050	STD 0,50
M 111 E 18	1799	<ul style="list-style-type: none"> C 180 	4	90 (122)	85,300	1,500 1,750 3,000	  	500 508 700	Nit S IF P Nit S	R40 510 000 R40 510 025 R40 510 050	STD 0,25 0,50
M 110	2746	<ul style="list-style-type: none"> 280, 280 E, 280 SE, 280 SL 	6	81-136 (110-185)	86,000	1,750 2,500 4,000	  	500 508 604	CrB Fe S IF P Cr P	R40 030 000 R40 030 050 R40 030 100	STD 0,50 1,00
OM 601.911 OM 601.912 OM 601.921	1997	<ul style="list-style-type: none"> 190 D, 200 D 	4	53 (72)	87,000	2,000 2,000 3,000	  	500 501 604	CrB S P IF Cr P	R40 050 000 R40 050 050	STD 0,50
OM 615	1998	<ul style="list-style-type: none"> 200 D, 206 D, 306 D 	4	40 (55)	87,000	3,000 2,000 4,000	  	500 501 604	Cr IF P IF Cr P	R40 070 000 R40 070 050 R40 070 100	STD 0,50 1,00
OM 615 OM 615	1988 2197	<ul style="list-style-type: none"> 200 D, 206 D, 207 D, 306 D 220 D, L200 D, L306 D, 0309 D L406 G, L408 G Unimog U45/421, U51/421 	4 4	44 (60) 37-48 (51-65)	87,000	2,000 2,000 4,000	  	500 501 604	CrB S P IF Cr P	R40 080 000 R40 080 050 R40 080 100	STD 0,50 1,00



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

M 115	1988	• 200, 220, 408, 0309	4	62-77 (85-105)	87,000	1,500		500	Cr S IF	R40 100 000 R40 100 050 R40 100 100	STD
						2,500		508	P		0,50
						4,000		604	P		1,00
M 115	1988	• 200, 0309 B, L408 GC	4	62-77 (85-105)	87,000	1,750		500	CrB Fe S IF	R40 110 000	STD
						2,500		508	P	R40 110 050	0,50
						4,000		604	Cr P	R40 110 100	1,00
M 115.900	2197	• 220, 0309, L408	4	77 (105)	87,000	2,000		500	CrB Fe S	R40 120 000	STD
						2,500		508	P	R40 120 050	0,50
						4,000		604	P	R40 120 100	1,00
OM 601.911 OM 601.912 / .913	1997	• 190 D, 200 D, 200 TD	4	53-55 (72-75)	87,000	2,500		500	Cr P	R40 160 000 R40 160 050	STD
						2,000		501	P IF		0,50
						3,000		604	Cr P		
OM 602, OM 602 A OM 605, OM 605 LA	2497	• 190 D, 250 D, 250 GD C250 D, E250 D, C250 TD O450 Turbo	5	62-110 (84-150)							
OM 603, OM 603 A OM 606, OM 606 LA	2996	• 300 D, 300 GD, 300 D Turbo E300 D, S300 TD	6	80-130 (109-177)							
M 102	1797	• 190 E	4	80 (109)	87,500	1,750		500	Cr P IF	R40 170 000	STD
						2,000		501	P IF	R40 170 050	0,50
						3,500		604	Cr P		
OM 646.986 Euro 4	2148	• Sprinter 209, 211, 213, 215 CDI 309, 311, 313, 315 CDI 411, 415 CDI 509, 511, 515 CDI	4	95-110 (129-150)	88,000	2,500		500	Cr P IF	R40 580 000	STD
						2,000		501	Cr P IFU	R40 580 025	0,25
						2,000		604	Nit S	R40 580 050	0,50
M 116	3839	• 380 SE, 380 SL	V8	150 (204)	88,000	1,500		500	Nit S	R40 640 000	STD
						2,000		501	P IF	R40 640 050	0,50
						3,500		604	Cr P		
OM 611 DE 22 LA OM 611.961	2151	• C200 CDI, C220 CDI, E220 CDI V200, V220, Sprinter	4	75-105 (102-143)	88,000	2,500		500	Cr P IF	R40 770 000 R40 770 050	STD
						2,000		501	P IF		0,50
						3,000		604	Cr P		
OM 612 OM 647.961	2686	• C270 CDI, ML270, G270 Sprinter	5	115-125 (156-170)							
OM 613 OM 648.960	3222	• C320 CDI, E320 CDI, S320 CDI	6	150 (204)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

M 103 E 30 M 104 E 30	2962	• 300 E, 300 SE, 300 SL, 300 GE	6	132-140 (180-190)	88,500	1,500 1,750 3,000		500	Cr S IF	R40 180 000 R40 180 050	STD 0,50
								508	P		
								604	Cr P		
M 103 E 30 M 104 E 30	2962	• 300 E, 300 SE, 300 SL, 300 GE 300 E-24, 300 SL-24	6	132-170 (180-231)	88,500	1,500 1,750 3,000		500	Nit S IF	R40 190 000 R40 190 050	STD 0,50
								508	P		
								604	Cr P		
M 102 E 20 M 102 V 20	1997	• 190 E 200 E 200 GE	4	80-90 (109-122)	89,000	1,750 2,000 3,500		500	Cr S IF	R40 200 000 R40 200 050 R40 200 100	STD 0,50 1,00
								508	P		
								604	Cr P		
OM 604 D	2155	• C220, E220	4	70 (95)	89,000	2,500 2,000 3,000		500	Cr IF	R40 220 000 R40 220 050 R40 220 070	STD 0,50 0,70
								508	P		
								604	Cr P		
OM 601 D 23	2299	• 208, 308, 408, 508 Vito, Viano	4	58-72 (79-98)							
OM 602 D 29 OM 602 D 29 LA	2874	• 290 GD, O405 Sprinter, Vario	5	70-95 (95-129)							
OM 603 D 35 A	3449	• 350 S, 350 GD	6	100-110 (136-150)							
M 120 E 60	5987	• 600 S, 600 SE, 600 SEL	V12	290-300 (395-408)	89,000	1,500 2,000 3,500		500	Nit S	R40 540 000 R40 540 035 R40 540 070	STD 0,35 0,70
								508	P		
								604	Nit S		
M 111 E 20	1998	• C200, E200 Vito, Sprinter	4	95-100 (129-136)	89,900	1,500 1,750 3,000		500	Nit S	R40 230 000 R40 230 050	STD 0,50
								508	P		
								604	Cr P		
M 111 E 22	2199	• C220, E220	4	110 (150)							
M 112 E 26	2597	• E240, C240, CLK240	6	125-130 (170-177)							
M 104 E 28 M 112 E 28	2799	• C280, E280, S280, SL280	6	150 (204)							
M 104 E 32 M 112 E 32	3199	• E320, G320, S320, CLK320 300 SE, 320 SL, ML320	6	155-170 (211-231)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring							
			No	(HP)	Diam	Height	Type	Set No.	Size			
M 111 E 20	1998	• C200, E200 Vito, Sprinter	4	95-100 (129-136)	89,900	1,500		500	NitB S	R40 660 000	STD	
								508	P		R40 660 025	0,25
								604	Cr P		R40 660 050	0,50
M 111 E 22	2199	• C220, E220	4	110 (150)								
M 112 E 26	2597	• E240, C240, CLK240	6	125-130 (170-177)								
M 104 E 28 M 112 E 28	2799	• C280, E280, S280, SL280	6	150 (204)								
M 104 E 32 M 112 E 32	3199	• E320, G320, S320, CLK320 300 SE, 320 SL, ML320	6	155-170 (211-231)								
M 113 E 43	4266	• S430, ML430, C430, CLK430	V8	205 (279)								
OM 616	2399	• 240 D, 240 GD, O309, 207 307, 407, 507, Unimog	4	38-48 (52-65)	90,900	3,000		500	Cr S IF	R40 240 000	STD	
								501	P IF		R40 240 025	0,25
								604	Cr P		R40 240 050	0,50
OM 617 OM 617 A	2988	• 300 D, 300 SD T, 300 TD T 209, 309, 409, 240 D 3.0	5	64-92 (88-125)								
M 111 E 23 M 161	2295	• C230, E230, V230, SLK230 Viano, Sprinter, Vito	4	105-145 (143-197)	90,900	1,500		500	NitB S IF	R40 670 000	STD	
								508	P		R40 670 025	0,25
								700	Nit S		R40 670 050	0,50
OM 616	2404	• 240D, 207, 307, 309 Unimog	4	38-48 (52-65)	91,000	3,000		500	Cr S IF	R40 260 000	STD	
								501	P IF		R40 260 025	0,25
								604	Cr P		R40 260 050	0,50
OM 617	3005	• 240D, 300D	5	59 (80)								
M 119 E 42	4196	• 400 E, 400 SE 420 E, 420 SE, 420 SEL	V8	205 (279)	92,000	1,500		500	Nit S	R40 270 000	STD	
								508	Cr P		R40 270 050	0,50
								700	Nit S		R40 270 100	1,00
M 116 E 42.964 M 116 E 42.965 M 119 E 42	4196	• 420 SE, 420 SL	V8	165 (224)	92,000	1,500		500	Cr S IF	R40 680 000	STD	
								508	P		R40 680 050	0,50
								604	Cr P		R40 680 100	1,00
M 116.960 M 116.961	3818	• 380 SE, 380 SL	V8	160 (218)	92,000	1,750		500	Cr S IF	R40 690 000	STD	
								508	P		R40 690 050	0,50
								604	Cr S		R40 690 100	1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

M 116 E 36	3499	• 280 SE, 300 SE, 350 SE, 350 SL	V8	147 (200)	92,000	1,750		500	Cr S IF	R40 700 000 R40 700 050 R40 700 100	STD
						2,500		508	P		0,50
						4,000		604	Cr P		1,00
M 117	4520	• 450 SE, 450 SL	8	134-165 (182-225)							
M 115 E 23	2307	• 230, 230 G, 0309	4	59-81 (80-110)	93,750	1,750		500	Cr P IF	R40 280 000 R40 280 040 R40 280 080	STD
						2,500		508	P		0,40
						4,000		604	Cr P		0,80
M 102 E 23	2299	• 190 E, 230 E, 230 G, 230 GE 208, 210, 308, 310, 410, 510	4	70-100 (95-136)	95,500	1,750		500	Cr IF	R40 290 000 R40 290 050 R40 290 100	STD
						2,000		508	P		0,50
						3,500		604	Cr P		1,00
M 102 E 23	2299	• 190 E, 230 E, 230 G, 230 GE	4	125-136 (170-185)	95,500	1,500		500	Cr S IF	R40 710 000 R40 710 050 R40 710 100	STD
						1,750		508	P		0,50
						3,500		604	Cr S		1,00
M 119 E 50	4973	• S 500, SL 500, CL 500	V8	235 (320)	96,500	1,500		500	Cr S IF	R40 720 000 R40 720 050 R40 720 100	STD
						1,750		508	Cr P		0,50
						3,000		604	Cr P		1,00
M 117 E 50 M 119 E 50	4973	• 500, 500 SE, 500 SL E500, CL500	V8	164-240 (223-333)	96,500	1,750		500	Cr IF	R40 730 000 R40 730 050 R40 730 100	STD
						2,000		501	P IF		0,50
						3,500		604	Cr P		1,00
M 117 E 56	5547	• 560 SE	8	205-220 (279-300)							
OM 352 A OM 353 A OM 362 LA	5675	• 1017, 1217, 1417, 1419, 1617 1619, 1420, 1619, 1620, 2219 2220, U 1000, U 1250, U 1300 U 1500, U 1700 Unimog	6	92-141 (125-192)	97,000	2,500		505	Cr S	R40 300 000 R40 300 050 R40 300 100	STD
						2,500		501	P IWU		0,50
						4,000		604	Cr P		1,00




















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

OM 314	3782	<ul style="list-style-type: none"> 1013, 1113, 1213, 1313, 1413 1513, 1613, 408, 508, 608, 613 811, 813, 911, 913, O 322 O 302, O 309, O 312, O 321 Unimog 	4	34-62 (47-85)	97,000	3,000		505	Cr S	R40 310 000 R40 310 050 R40 310 100	STD	
						3,000		501	P		0,50	
						3,000		501	P	1,00		
						5,500		604	Cr P			
						5,500		600	P			
OM 352 OM 353 OM 352 A OM 367	5673	<ul style="list-style-type: none"> L408, L/LS508, LP/LT 608 L613, LP/LPL709, L710 LP/LPL908, LS/LPS911, L810 LP808, LP811, LS/LPS1113 LP813, LP913, L1013, L1113 L1213, LP1313, L1413, L1513 L1613, O 302, O 309, O 312 O 321, O 322 Unimog 	6	51-95 (70-130)								
OM 314	3782	<ul style="list-style-type: none"> 1013, 1113, 1213, 1313, 1413 1513, Unimog 	4	34-62 (47-85)	97,000	3,000		505	Cr S	R40 320 000 R40 320 050 R40 320 100	STD	
						3,000		501	P		0,50	
						3,000		501	P	1,00		
						5,500		604	Cr P			
OM 352 OM 353	5673	<ul style="list-style-type: none"> L408, L/LS508, LP/LT 608 L613, LP/LPL/LPL709, L710 LP/LPL809, LP810, LS/LPS911 LP808, LP811, LS/LPS1113 LP813, LP913, L1013, L1113 L1213, LP1313, L1413, L1513 L1613, O 302, O 309, O 312 O 321, O 322 Unimog 	6	51-95 (70-130)								
M 113 E 50	4966	<ul style="list-style-type: none"> S 500, SL 500, G 500 	V8	225 (306)	97,000	1,200		500	Nit S	R40 740 000	STD	
						1,500		508	P			
						3,000		700	Nit S			
M 113 E 50	4966	<ul style="list-style-type: none"> S 500, SL 500, G 500 	V8	225 (306)	97,000	1,500		500	Cr S IF	R40 750 000 R40 750 050	STD	
						1,750		508	P			0,50
						3,000		700	Nit S			
OM 364 OM 364 A OM 364 LA	3972	<ul style="list-style-type: none"> Atego 711, 811, 1117, 1120 1320, 1417, 1520, 1820 	4	63-177 (86-241)	97,500	2,500		505	Cr S	R40 340 000 R40 340 050 R40 340 100	STD	
						2,500		501	P IWU			0,50
						4,000		604	Cr P	1,00		
OM 366 OM 366 A OM 366 LA	5958	<ul style="list-style-type: none"> Atego 817, 1117, 1120, 1317 1320, 1417 	6	95-177 (129-241)								

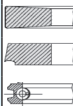
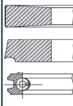
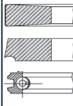
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

OM 364 LA	3972	<ul style="list-style-type: none"> Atego 1117, 1120, 1320 1417, 1520, 1820 	4	63-177 (86-241)	97,500	2,500		505	Mo	R40 520 000	STD				
												501	Cr IWU	R40 520 050	0,50
												604	Cr	R40 520 100	1,00
OM 366 LA	5958	<ul style="list-style-type: none"> Atego 817, 1117, 1120, 1317 1320, 1417 	6	170 (241)											
OM 904 OM 904 LA	4250	<ul style="list-style-type: none"> Atego 612, 711, 811, 812, 814 911, 917, 1117, 1317 	4	75-142 (102-190)	102,000	3,000		505	Cr P	R40 550 000	STD				
												501	Cr P IWU		
												604	Cr P		
OM 906 OM 906 LA	6374	<ul style="list-style-type: none"> Atego 817, 823, 917, 923 1017, 1023, 1215, 1217 1123, 1228, 1323, 1328 1517, 1523, 1528 	6	142-205 (190-279)											
OM 904 LA Euro 2 OM 907	4250	<ul style="list-style-type: none"> Atego 2 Axor 2 	4	75-142 (102-193)	102,000	3,000		505	Cpc	R40 780 000	STD				
												501	Cr P IWU		
												604	Cr P		
OM 906 LA Euro 3 OM 906 Euro 3 OM 909	6374	<ul style="list-style-type: none"> Citaro 530 Touro 500 	6	142-228 (193-310)											
OM 360 OM 360 A OM 360 H	8720	<ul style="list-style-type: none"> O 302, O 305, L 1317 LP -2317, -1319, -1417, -1419 1519, -1619, -1817, 1819 	6	127-154 (172-210)	115,000	3,500		505	Cr	R40 350 000	STD				
												501	P IF	R40 350 050	0,50
												604	Cr	R40 350 100	1,00
						5,500				R40 350 150	1,50				
OM 401	9572	<ul style="list-style-type: none"> 1224, 1227, 1424, 1427, 1431 1727, 1824, 1827, 1831, 1927 2024, 2031, 2426, 2427, 2431 2524, O 404 	6	129-188 (175-256)	125,000	3,000		505	Cr S	R40 370 000	STD				
						3,000						501	P		
						4,000						604	Cr		
OM 401.905	10456	<ul style="list-style-type: none"> Industrial 	V6	193 (262)	125,000	3,000		505	Cr S	R40 380 000	STD				
						3,000						501	P		
						3,000						508	P		
OM 407 A OM 407 HA	11413	<ul style="list-style-type: none"> O 305 G 	6	206 (280)		4,000		604	Cr P						
OM 403	15950	<ul style="list-style-type: none"> Industrial 	V8	250 (340)											
OM 404 A 901	20911	<ul style="list-style-type: none"> Industrial 	V12	386 (525)											









Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

OM 409 OM 401 A OM 401 LA OM 402 LA OM 403 OM 404	9200	• Industrial	5	137 (187)	125,000	3,000 3,000 6,000		505	Mo	R40 390 000	STD
	9572	• 1019, 1219, 1419, 1619, 1719 1819, 1919, 2219, O 303	6	180-231 (246-314)				508	P		
	12760	• 1226, 1227, 1429, 1726, 1827 1838, 2422, 2427, 2527, 2638 2635, Actros	8	280 (381)				604	Cr P		
	15950	• 1626, 1632, 1926, 1932, 2032 2226, 2232, 2626	10	261 (355)							
OM 409 OM 401 A OM 401 LA OM 402 LA	9200	• Industrial	5	137 (187)	125,000	3,000 3,000 6,000		505	Cr	R40 400 000	STD
	9572	• 1019, 1219, 1419, 1619, 1719 1819, 1919, 2219, O 303	6	180-231 (246-314)				508	P		
	12760	• 1226, 1227, 1429, 1726, 1827 1838, 2422, 2427, 2527, 2638 2635, Actros	8	280 (381)				604	Cr P		
OM 401 LA OM 402 OM 402 LA	9572	• O 404, 1226, 1227, 1429, 1726 1727, 1827, 1838, 2422, 2427 2527, 2638, Actros	V6	200-230 (272-313)	125,000	3,000 3,000 4,000		505	Cr S	R40 490 000	STD
	12760	• O 404, 1226, 1227, 1429, 1726 1727, 1827, 1831, 1838, 2422 2427, 2527, 2531, 2635, 2638 Actros	V8	280 (381)				508	Cr IWU		
								604	Cr		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

OM 427 OM 427 A	11407	• O 405	5	150 (204)	128,000	3,000		505	Mo	R40 410 000	STD
OM 421, OM 421 A OM 441 A, OM 441 LA	10965	• O 303, O 405, O 407 1222, 1234, 1422, 1622, 1733 1922, 2222, 2433, 2534, 3234 Actros	6	159-390 (216-530)		3,000		501	Cr IWU		
OM 427 HLA OM 429 A, OM 429 LA OM 447, OM 457 LA OM 457 HLA OM 458, OM 475	11967	• O 404, O 405, O 500, O 530 Axor, Citaro, Travego	6	184-335 (250-456)		4,000		604	Cr		
OM 422, OM 422 A OM 442 A, OM 442 LA	14618	• O 303, O 404 1633, 1635, 1933, 2033, 2233 2235, 3333, Atego, Actros	8	184-390 (250-530)							
OM 423, OM 423 LA OM 443 A, OM 443 LA	18273	• 1636, 1936, 2235, 2236, 3836 Actros, Stationary	10	184-412 (250-560)							
OM 424, OM 424 A OM 424 LA OM 444 A, OM 444 LA	21927	• O 303, 1633, 1638, 1933, 1938 2638, 3333 Actros, Stationary	12	309-500 (420-680)							
OM 421, OM 421 A OM 441 A, OM 441 LA	10965	• O 303, O 405, O 407 1222, 1234, 1422, 1622, 1733 1922, 2222, 2433, 2534, 3234 Actros	6	184-390 (250-530)	128,000	3,000		505	Cr		
OM 422, OM 422 A OM 442 A, OM 442 LA	14618	• O 303, O 404 1633, 1635, 1933, 2033, 2233 2235, 3333, Atego, Actros	8	184-390 (250-530)		3,000		508	P		
OM 421, OM 421 A OM 441 A, OM 441 LA	10965	• O 303, O 405, O 407 1222, 1234, 1422, 1622, 1733 1922, 2222, 2433, 2534, 3234 Actros	6	184-390 (250-530)	128,000	3,000		505	Nit S	R40 760 000	STD
OM 422, OM 422 A OM 442 A, OM 442 LA	14618	• O 303, O 404 1633, 1635, 1933, 2033, 2233 2235, 3333, Atego, Actros	8	184-390 (250-530)		3,000		508	P		
						4,000		604	Cr		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

OM 427 OM 427 A	11407	• O 405	5	150 (204)	128,000	3,000 3,000 4,000		505 501 604	Cpc Cr IWU Cr	R40 800 000	STD
OM 421, OM 421 A OM 441 A, OM 441 LA	10965	• O 303, O 405, O 407 1222, 1234, 1422, 1622, 1733 1922, 2222, 2433, 2534, 3234 Actros	6	159-390 (216-530)							
OM 427 HLA OM 429 A, OM 429 LA OM 447, OM 457 LA OM 457 HLA OM 458, OM 475	11967	• O 404, O 405, O 500, O 530 Axor, Citaro, Travego	6	184-335 (250-456)							
OM 422, OM 422 A OM 442 A, OM 442 LA	14618	• O 303, O 404 1633, 1635, 1933, 2033, 2233 2235, 3333, Atego, Actros	8	184-390 (250-530)							
OM 423, OM 423 LA OM 443 A, OM 443 LA	18273	• 1636, 1936, 2235, 2236, 3836 Actros, Stationary	10	184-412 (250-560)							
OM 424, OM 424 A OM 424 LA OM 444 A, OM 444 LA	21927	• O 303, 1633, 1638, 1933, 1938 2638, 3333 Actros, Stationary	12	309-500 (420-680)							
OM 346	10809	• L 334, LS 332, LP/LKA 1418 1518, 1618, 1619, 1620, 1918 1920, 2020, 2220	6	132-154 (180-210)	128,000	3,500 3,500 3,500 6,500		505 501 508 604	Cr P IF P Cr		
OM 355	11581	• O 317, L 1621, 1921 LP 1424, 1623, 1636, 1624 1923, 1924, 2224, 2623, 2624 LPK 1624, 2224	6	136-191 (185-260)							
OM 355 A	11900	• L 1928, 2628	6	206-210 (280-285)							







Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MERCEDES

OM 411 OM 441	11309	• 0 303, 1622, 1722, 1922, 2222 2422, Stationary	V6 6	150-165 (204-225)	130,000	3,000 3,000 4,000		500	Cr S	R40 440 000	STD
OM 422	15080	• 0 303, 1628, 1726, 1729, 1928 1929, 2228, 2429, 3239	V8	206-218 (280-296)				501	Cr IWU		
OM 442	18848	• Stationary	8	218 (296)				604	Cr		
OM 443	18848	• Stationary	V10	271 (369)							
OM 444	22618	• Stationary	V12	350 (476)							
OM 441 OM 422 OM 442	11309	• 0 303, 1622, 1722, 1922, 2222 2422	V6	150-165 (204-225)	130,000	3,000 3,000 4,000		500	Cr S	R40 480 000	STD
OM 443	15080	• 0 303, 1628, 1726, 1729, 1928 1929, 2228, 2429, 3239	V8	195-218 (265-296)				501	P IFU		
OM 444	18848	• Stationary	V10	271 (369)				604	Cr		
OM 441	11309	• 0 303, 1622, 1628, 1726, 1729 1928, 2429, 3239, Stationary	6	150-165 (204-225)	130,000	3,000 3,000 4,000		505	Mo	R40 450 000	STD
OM 442	15080	• Stationary	V8	192-218 (265-296)				501	Cr IWU		
OM 443	18848	• Stationary	V10	271 (369)				604	Cr		
OM 444	22618	• Stationary	V12	350 (476)							







Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MERCEDES

OM 441	11309	• 0 303, 1622, 1628, 1726, 1729 1928, 2429, 3239, Stationary	6	150-165 (204-225)	130,000	3,000		505	Mo	R40 460 000	STD
OM 442	15080	• Stationary	V8	192-218 (265-296)		3,000		501	P IFU		
OM 443	18848	• Stationary	V10	271 (369)		4,000		604	Cr		
OM 444	22618	• Stationary	V12	350 (476)							
OM 521 OM 541 OM 941 OM 501 LA	11946	• 1831, 1835, 1839, 1840, 1843 2040, 2531, 2535, 2539, 2540 2543, 2640, 3240, 3241, 4140 Actros	V6 6	230-355 (313-483)	130,000	3,000		505	Cr S IF	R40 560 000	STD
OM 522 LA OM 542 LA OM 942 OM 502 LA	15928	• 1848, 1853, 2053, 2548, 2553 2653, 3253, 3353 Actros	V8 8	330-448 (445-609)		3,000		501	Cr IWU		
						4,000		604	Cr		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MINI COOPER

N14B16	1598	• Mini Cooper S 1.6i 16v Turbo	4	128 (175)	77,000	1,200		500	Cr S IF	R41 000 000 R41 000 050	STD 0,50
						1,500		508	P		
						2,500		700	Cr P S		
W10B16A	1397	• Mini One Cooper	4	70 (90)	77,000	1,200		500	Cr S IF	R41 010 000 R41 010 050	STD 0,50
W11B16A	1598	• Mini Cooper, Clubman Cooper S, Mini Cabrio R52 Mini Cabrio R53	4	88-155 (120-211)	77,000	1,200		508	P		
						2,500		700	Cr P S		















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MWM

	567	• Industry	1	8-9 (11-12)	85,000	3,000 3,000 5,000		504 508 604	Mo P Cr P	R42 090 000	STD
KD 12E	880			8-34 (12-46)	95,000	3,000 3,000 3,000 5,000 5,000		500 501 508 604 600	Cr P P P P P	R42 000 000	STD
KD 12Z	1700										
KD 12D	2550										
KD 12V	3400										
D 301	745		1	10 (13)	95,000	3,000 3,000 3,000		503 501 508	Cr P P P	R42 010 000	STD
KD 12E	880		1	12 (16)		5,000		604	P		
D 208Z, D 302 D 308Z,	1490		2	23 (31)							
D 225, D 325, 925L KD 12Z	1700		2	24 (33)							
D 208D, D 303 D 308D	2235		3	34 (46)							
D 225, D 325 D 925 L3, KD 12D	2550		3	37 (50)							
D 202, D 208V D 308V	3080		4	45 (62)							
D 225, D 325, 925 L KD 12V	3400		4	50 (68)							
D 202, D 208S D 308S	4470		6	68 (93)							
D 225, D 325 925 L	5100		6	75 (102)							


Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● MWM

D 227-2 D 327-2	1885	• Tractor	2	25-27 (34-36)	100,000	3,000		504	Cr P	R42 030 000	STD
						2,000		501	P IFU		
						2,000		508	P		
D 227-3 D 327-3	2827	• Tractor	3	43-45 (58-61)		4,000		604	Cr P		
D 227-4 D 327-4	3370	• Tractor	4	49-54 (67-74)							
D 227-6 D 327-6	5655	• Tractor	6	74-82 (101-112)							
D 893 D 229-3	2940		1		102,000	3,000		504	Cr P	R42 060 000	STD
			3	24-33 (33-45)		2,500		508	P		
D 229-4 TD 229-4	3920		4	32-44 (44-60)		4,000		604	Cr P		
D 229-6 TD 229-6	5880		6								
4.10 TCA 6.10 TCA			4		103,000	3,000		504	Cr P	R42 070 000	STD
			6			2,500		508	P		
						4,000		604	Cr P		
D 226-Z D 226-D	2080 3120		2	27-30 (37-40)	105,000	3,000		504	Cr P	R42 040 000	STD
						2,000		501	P		
						2,000		508	P		
D 226-V D 226-S TD 226, TD 228	4160 6240		3 4 6	44-48 (60-65) 59-73 (80-100) 74-110 (100-150)		4,000		604	Cr P		

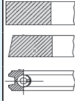
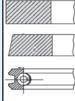
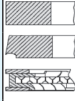
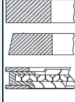
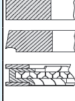
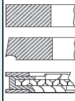
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● MWM

D 226 B/2	2080		2	32-36	105,000	3,000		504	Cr	R42 050 000	STD	
				(43-49)				2,000	501			P
								4,000	604			Cr P
D 226 B/3	3120		3	48-84								
(65-114)												
D 226 B/4	4160		4	63-113								
TD 226 B/4				(87-154)								
D 226 B/6	6240		6	96-170								
TD 226 B/6				(130-231)								

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● OPEL

Z 13 DT Z 13 D DH Z 13 D TJ	1248	• Corsa, Astra, Agila, Combo Meriva, Tigra 1.3 CDTI	4	55-66 (75-90)	69,600	2,000 1,500 2,000		500 501 604	Cr P P Nit S	R43 210 000	STD
A 13 DTC	1248	• Corsa D 1.3 CDTI	4	55 (75)	69,600	1,500 1,500 2,000		500 501 604	Cr P P Nit S	R43 520 000 R43 520 050 R43 520 100	STD 0,50 1,00
A 13 FD	1248	• Combo 1.3 CDTI	4	66 (90)							
A 13 DTE Z 13 DTE	1248	• Astra J 1.3 CDTI Corsa D 1.3 CDTI Meriva B 1.3 CDTI	4	70 (95)							
12 NZ C 12 NZ X 12 NZ	1196	• Corsa, Combo 1.2i	4	33 (45)	72,000	1,500 1,500 3,000		500 508 700	CrB Fe S P Cr P S	R43 000 000 R43 000 050 R43 000 100	STD 0,50 1,00
10 N 10 S	993	• Kadett, Corsa 1.0	4	29-35 (40-48)	72,000	2,000 2,000 5,000		500 501 700	Cr P P Cr P S	R43 380 000 R43 380 050 R43 380 100	STD 0,50 1,00
X 10 XE Z 10 XE	973	• Agila, Corsa 1.0i	4	40 (54)	72,500	1,200 1,500 2,000		500 508 700	NitB S IF P Nit S	R43 360 000 R43 360 050	STD 0,50
X 12 XE Z 12 XE	1199	• Agila, Corsa, Astra 1.2 16v	4	48-55 (65-75)							
B 14 NEJ	1364	• Corsa E 1.4 Turbo		74 (101)	72,500	1,200 1,200 2,000		500 508 700	NitB S IF P Nit S	R43 500 000 R43 500 050	STD 0,50
A 14 NEL	1364	• Astra GTC J 1.4 / J 1.4 Turbo Astra J Sports Tourer 1.4 T Cascada 1.4, Corsa D 1.4 Meriva B 1.4 / B 1.4 LPG Zafira Tourer C 1.4	4	88 (120)							
A 14 NET B 14 NET	1364	• Astra GTC J 1.4 / J 1.4 LPG Astra J 1.4 Turbo Astra Sport Tourer 1.4 LPG Cascade 1.4 Turbo Insignia 1.4 / 1.4 LPG Insignia Sports Tourer 1.4 Mokka 1.4 / 1.4 4x4 / 1.4 LPG Meriva B 14, Zafira Tourer C		103 (140)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
Z 12 XEP A 12 XER	1229	• Agila, Corsa, Astra 1.2	4	59-63 (80-86)	73,400	1,200		500	NitB S	R43 390 000 R43 390 050	STD
						1,200		508	P		0,50
						2,000		700	Cr P S		
Z 14 XEP A 14 XER	1364	• Astra, Meriva, Corsa, Aveo 1.4	4	66-74 (90-101)							
B 10 XFL B 10 XFT	999	• Adam 1.0 • Astra K 1.0, Astra K Sports Tourer • Corsa E 1.0	3	66-85 (90-115)	79,700	1,200		500	Nit S	R43 640 000 R43 640 050	STD
						1,200		508	P		0,50
						2,000		700	Nit S		
B 14 XFT	1399	• Mokka, Mokka X 1.4 4x4 • Astra K 1.4 Turbo • Astra K Sports Tourer 1.4 4x4	4	110-112 (150-152)							
13 N, 13 NB 13 S, 13 SB	1297	• Kadett, Corsa, Ascona Manta	4	44-55 (60-75)	75,000	1,750		500	Cr Fe S IF	R43 020 000 R43 020 050 R43 020 100	STD
						2,000		508	P		0,50
						4,000		700	Cr P S		1,00
1.3 S C 1.3 N	1297	• Kadett, Corsa 1.3	4	44-55 (60-75)	75,000	1,500		500	CrB Fe S	R43 030 000 R43 030 050 R43 030 100	STD
						1,500		501	P		0,50
						4,000		700	Cr P S		1,00
B 12 XHL - EB2DT B 12 XHT - EB2DTS	1199	• Crossland X 1.2 • Grandland X 1.2	3	81-96 (110-130)	75,000	1,200		500	Cr P	R43 660 000	STD
						1,000		508	P		
						2,000		604	Nit S		
4EC1 4EC1T X 15 DT	1498	• Corsa, Kadett 1.5 D Corsa, Kadett 1.5 TD	4	37 (50)	76,000	2,000		500	Cr P	R43 040 000 R43 040 050	STD
						1,500		501	P		0,50
						3,000		604	Cr P		
DG 76 NP 960	1498	• Kadett, Cielo, Lanos, Espero Nubira, Nexia, Racer 1.5i	4	51-66 (70-90)	76,500	1,500		500	CrB Fe S IF	R43 010 000 R43 010 050 R43 010 100	STD
						1,500		501	P		0,50
						3,000		700	Cr P S		1,00
1.4 NV, 1.4 NVH C 1.4 NZ, C 1.4 SE X 1.4 NZ, X 1.4 SZ	1389	• Astra, Combo, Corsa, Kadett Tigra 1.4	4	44-66 (60-90)	77,600	1,500		500	CrB Fe S IF	R43 050 000 R43 050 050 R43 050 100	STD
						1,500		501	P		0,50
						3,000		700	Cr P S		1,00
Z1 4XE, GLHB	1389	• Astra 1.4, Corsa 1.4 E16, SE16 V, CE16	4	66 (90)	77,600	1,200		500	NitB S	R43 480 000 R43 480 050 R43 480 100	STD
						1,500		501	P		0,50
						2,000		700	Cr P S		1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● OPEL

1.2 S	1196	• Kadett 1.2	4	40 (55)	77,800	1,500		500	Cr S	R43 060 000 R43 060 050 R43 060 100	STD
						1,500		501	P		0,50
						4,000		700	Cr P S		1,00
1.2 ST	1196	• Corsa, Kadett	4	40-44 (55-60)	77,800	1,750		500	Cr S	R43 070 000 R43 070 050 R43 070 100	STD
						2,000		508	P		0,50
						4,000		700	Cr P S		1,00
1.2 N, 1.2 NV, 1.2 S E 1.2 GV	1196	• Corsa, Kadett, Ascona, Manta	4	38-44 (52-60)	79,000	2,000		500	Cr P	R43 080 000 R43 080 050 R43 080 100	STD
						2,000		501	P		0,50
						5,000		700	Cr P S		1,00
1.6 LZ, -SE, -SV, -SZ C 1.6 NZ, E 1.6 NZ X 1.6 NZ, -SZ, -SZR	1598	• Corsa, Kadett, Ascona, Astra Vectra 1.6	4	55-74 (75-101)	79,000	1,200		500	CrB S	R43 090 000 R43 090 050 R43 090 100	STD
						1,500		508	P		0,50
						3,000		700	Cr P S		1,00
TC4EE1 X 1.7 DT, -DTL Z 1.7 DTH, -DTL	1886	• Corsa, Astra, Combo, Zafira Vectra, Meriva 1.7D	4	55-74 (75-101)	79,000	2,000		500	Cr	R43 100 000 R43 100 050 R43 100 100	STD
						1,500		501	P		0,50
						3,000		604	Cr P		1,00
X 1.6 XE, -XEL Y 1.6 XE	1598	• Corsa, Astra, Combo Tour Vectra, Meriva, Tigra, Zafira	4	52-74 (71-101)	79,000	1,200		500	NitB S	R43 220 000 R43 220 050 R43 220 100	STD
						1,500		508	P		0,50
						2,000		700	Nit S		1,00
Z 16 YNG	1598	• Zafira CNG	4	71 (101)	79,000	1,500		500	Cr P S	R43 270 000 R43 270 050 R43 270 100	STD
						1,500		508	P		0,50
						2,500		700	Cr P S		1,00
X 16 XE X 16 XEL X 16 XE-4V	1598	• Vectra, Astra, Tigra, Corsa	4	74-78 (101-106)	79,000	1,200		500	CrB S	R43 320 000 R43 320 050 R43 320 100	STD
						1,500		508	P		0,50
						2,500		700	Cr P S		1,00
Z1 6XEP	1598	• Astra Twinport, Meriva 1.6	4	74 (101)	79,000	1,200		500	NitB S	R43 490 000 R43 490 050 R43 490 100	STD
						1,200		501	P		0,50
						2,000		700	Cr P S		1,00
A 16 FDL A 16 FDH	1598	• Combo 1.6 CDTI	4	66 (90)	79,500	1,500		500	Cr P	R43 530 000 R43 530 040 R43 530 060	STD
	1598					1,500		508	P		0,40
						2,000		604	Nit S		0,60
A 16 FDH	1598	• Combo 1.6 CDTI	4	74 (101)							






















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	






















● OPEL

A 16 DTH Euro 5 B 16 DTE B 16 DTN B 16 DTU B 16 DTH	1598	<ul style="list-style-type: none"> Meriva B MPV Mokka, Mokka X Astra K Insignia B Grand Sport 	4	70-81 (95-110)	79,700	1,500		500	Cr P	R43 610 000	STD		
	1598	<ul style="list-style-type: none"> Astra J GTC, Astra Sports Tourer Astra K Zafira Tourer C Mokka, Mokka X Insignia A, Insignia Sports Tourer Insignia B Grand Sport Meriva B MPV 	4	81-100 (110-136)		1,500		501	P IFU				
1.6 D 1.6 DA	1598	<ul style="list-style-type: none"> Ascona, Kadett 1.6D 	4	40-41 (54-55)	80,000	2,000		500	CrB S	R43 110 000	STD		
						2,000		501	P			R43 110 050	0,50
						3,000		604	Cr P			R43 110 100	1,00
1.6 S 1.6 N	1598	<ul style="list-style-type: none"> Ascona, Kadett 1.6 	4	55-66 (75-90)	80,000	1,500		500	CrB S IF	R43 120 000	STD		
						1,750		508	P			R43 120 050	0,50
						4,000		700	Cr P S			R43 120 100	1,00
X 25 TD	1796	<ul style="list-style-type: none"> Omega TD 	6	96 (130)	80,000	3,000		504	Cr	R43 130 000	STD		
						1,750		501	P IFU			R43 130 050	0,50
						3,000		604	Cr			R43 130 100	1,00
F9Q	1870	<ul style="list-style-type: none"> Vivaro, Movano 1.9DTI 	4	58-74 (79-101)	80,000	2,500		500	Cr P IF	R43 470 000	STD		
						2,000		501	P IFU			R43 470 050	0,50
						3,000		604	Cr P				
1.6 LZ 1.6 LZ 2	1598	<ul style="list-style-type: none"> Vectra 1.6 	4	54-57 (71-75)	80,000	1,500		500	Cr P IF	R43 570 000	STD		
						1,500		501	P IFU			R43 570 050	0,50
						3,000		604	P				
X 1.8 XE1 Z 1.8 XE, -XEL	1796	<ul style="list-style-type: none"> Astra, Vectra, Corsa, Zafira Meriva, Tigra 1.8 	4	85-92 (115-125)	80,500	1,200		500	NitB S IF	R43 370 000	STD		
						1,200		508	P			R43 370 050	0,50
						2,000		700	Nit S				
C 18 XE, -XEL X 18 XE C 25 XE X 25 XE	1796	<ul style="list-style-type: none"> Astra, Vectra, Calibra, 1.8 	4	85-92 (115-125)	81,600	1,500		500	CrB S IF	R43 140 000	STD		
	1,500						508	P	R43 140 050			0,50	
	2498	<ul style="list-style-type: none"> Vectra, Calibra, Omega 2.5i 	6	125 (170)	3,000		700	Cr P S	R43 140 100			1,00	

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type		Set No.	Size































● OPEL

Z 19 DT, -DTH Z 19 DTJ, -DTL	1910	• Astra, Vectra, Zafira 1.9 CDTI	4	88-110 (120-150)	82,000	2,000		500	Cr P	R43 410 000 R43 410 050	STD
								508	P		0,50
								604	Cr P		
1.7 DR 1.7 YD X 1.7 DTL	1699	• Astra, Combo, Kadett Vectra 1.7D	4	42-50 (57-68)	82,500	2,000		500	Cr	R43 150 000 R43 150 050 R43 150 100	STD
								501	P		0,50
								604	Cr		1,00
Z 20 DMH	1956	• Astra, Insignia, Zafira 2.0 CDTI	4	81-121 (110-165)	83,000	2,000		505	Cr P	R43 460 000 R43 460 050	STD
								501	P		0,50
								604	Nit S		
A 20 DTL, A 20 DTC	1956	• Insignia 2.0 CDTI Zafira 2.0 CDTI	4	81 (110)	83,000	1,500		500	Cr P	R43 510 000 R43 510 050	STD
								508	P		0,50
								604	Nit S		
A 20 DTE	1956	• Insignia 2.0 CDTI	4	88-130 (120-140)							
A 20 DT, A 20 DTJ Z 20 DTJ, Y 20 DTJ	1956	• Insignia 2.0 CDTI Zafira 2.0 CDTI	4	96 (130)							
A 20 DTH	1956	• Insignia 2.0 CDTI 4x4 Zafira 2.0 CDTI Astra GTC J 2.0 CDTI Astra J 2.0 CDTI Astra Sports Tourer 2.0 CDTI Cascada 2.0 CDTI	4	118-120 (160-163)							
A 20 DTR	1956	• Insignia 2.0 Biturbo CDTI 4x4 Zafira 2.0 Biturbo CDTI Astra GTC J 2.0 Biturbo CDTI Astra J 2.0 Biturbo CDTI Astra Sports T. 2.0 Bitur. CDTI Cascada 2.0 Biturbo CDTI	4	140-143 (190-195)							
Y 26 SE	2597	• Omega	6	132 (180)	83,200	1,200		500	Nit S IF	R43 420 000 R43 420 050	STD
								501	P		0,50
								700	Cr P S		
X 20 DTL	1998	• Astra, Vectra, Zafira 2.0 16v	4	60 (82)	84,000	2,000		500	CrB S	R43 330 000 R43 330 050 R43 330 100	STD
								508	P		0,50
								604	Nit S		1,00
X 20 DTH	1998	• Astra, Vectra, Omega 2.0 DTI	4	74 (100)	84,000	2,500		505	Cr P	R43 340 000 R43 340 050 R43 340 100	STD
								508	P		0,50
								604	Nit S		1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl. No	kW (HP)	Piston Ring						
					Diam	Height	Type	Set No.	Size		
Y 2.0 DTH	1998	• Astra, Vectra, Omega Zafira 2.0 DTI	4	74-80 (100-109)	84,000	1,750		500	Cr P	R43 350 000	STD
X 2.2 DTR	2171	• Astra, Omega, Zafira Frontera 2.2 DTI 16v	4	85-92 (115-125)	84,000	1,750		501	P	R43 350 050	0,50
Y 2.2 DTH						3,000		604	Cr P	R43 350 100	1,00
1.8 S, -NZ, -NV EC 1.8 NV S 1.8 NV	1796	• Astra, Vectra, Omega, Ascona Kadett, Manta 1.8	4	60-84 (82-115)	84,800	1,500		500	CrB S IF	R43 160 000	STD
						1,500		508	P	R43 160 050	0,50
						3,000		700	Cr P S	R43 160 100	1,00
						1.8 S, -N, -NH C 1.8 NV	1796	• Astra, Vectra, Rekord Kadett, Manta	4	44-70 (60-95)	84,800
						1,750		508	P	R43 170 050	0,50
						4,000		700	Cr P S	R43 170 100	1,00
						16 N 16 S	1584	• Ascona, Kadett, Manta 1.6 S	4	50-55 (68-75)	85,000
						2,000		501	P	R43 180 050	0,50
						5,000		603	P	R43 180 100	1,00
						D 20 DTH	1997	• Grandland X 2.0 D	4	130 (177)	85,000
						2,000		501	P IF	R43 550 060	0,60
						2,000		604	Nit S		
						M9T	2298	• Movano	4	74-107 (101-146)	85,000
						2,000		501	Cr P IFU	R43 540 050	0,50
						2,000		604	Nit S		
						20 E, -SE, -SEH 20 SER, -XE C 20 NE, -LET, -XE	1998	• Astra, Vectra, Omega Calibra, Kadett, Ascona	4	85-110 (115-150)	86,000
						1,500		501	P	R43 190 050	0,50
						3,000		700	Cr P S	R43 190 100	1,00
						X 30 XE	2962	• Omega, Sintra 3.0i 24v	V6	155 (210)	
Z 2.0 SE, -LET Y 2.0 LET	1998	• Astra, Zafira, Speedster	4	100-108 (136-147)	86,000	1,200		500	NitB S	R43 430 000	STD
						1,500		508	P	R43 430 050	0,50
						2,500		700	Cr P S		
						Z 2.2 SE, -XE Y 2.2 SE, -XE	2198	• Frontera, Astra, Omega SpeedSter, Vectra, Zafira	4	140-147 (190-200)	
25 H, 25 S 25 CIH	2490	• Commodore, Senator 2.5 S	6	85-96 (115-131)	87,000	2,000		500	Cr S	R43 200 000	STD
						2,000		501	P IF	R43 200 050	0,50
						5,000		604	P		

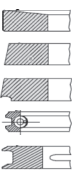

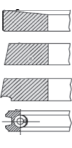

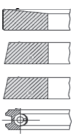




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● OPEL

2.1 LD	2068	• Rekord D, Blitz D	4	44 (60)	88,000	2,000		500	Cr S	R43 230 000 R43 230 050 R43 230 100	STD
								508	P		0,50
								604	Cr P		1,00
C 26 NE	2594	• Omega A 2.6i, Senator B 2.6i	6	110 (150)	88,800	1,500		500	Cr S IF	R43 240 000 R43 240 050	STD
								508	P		0,50
								700	Cr P S		
2.3 D 2.3 TD	2260	• Rekord 2.2D	4	46-63 (63-86)	92,000	2,000		500	Cr S IF	R43 250 000 R43 250 050 R43 250 100	STD
								508	P		0,50
								604	Cr P		1,00
2.3 DTR 2.3 TD 2.3 YTD	2260	• Frontera, Omega, Rekord Senator 2.3 TD	4	63-74 (86-100)	92,000	2,500		505	Cr	R43 260 000 R43 260 050 R43 260 100	STD
								508	P		0,50
								604	Cr P		1,00
19 H 19 S 19 SH	1897	• Ascona, Kadett, Manta Rekord 1.9	4	65-78 (86-106)	93,000	2,000		500	Cr P IF	R43 280 000 R43 280 050 R43 280 100	STD
								506	P		0,50
								700	Cr P S		1,00
S8U 758	2499	• Arena 2.5 D	4	55 (70)	93,000	3,000		500	Cr P	R43 440 000 R43 440 050	STD
								508	P		0,50
								604	Cr P		
S9W 702 8140.23	2799	• Movano 2.8 DTI	4	84 (114)	94,400	3,000		504	Cr P	R43 450 000 R43 450 040 R43 450 060	STD
								501	P IWU		0,40
								604	Cr P		0,60
2.2 E	2197	• Monza, Senator, Rekord	4	85 (115)	95,000	1,750		500	Cr S IF	R43 290 000 R43 290 050 R43 290 100	STD
								508	P		0,50
								700	Cr P S		1,00
C 2.4 NE C 3.0 SE	2410 2969	• Omega, Frontera • Omega, Senator	4 6	92 (125) 150 (204)	95,000	1,500		500	Cr S	R43 300 000 R43 300 050	STD
								501	P		0,50
								700	Cr P S		
2.0 N, -E, -S 3.0 E, -NE C 3.0 NE, -LE	1979 2969	• Ascona, Manta, Rekord Kadett, Monza, Senator • Monza, Senator, Omega	4 6	66-84 (90-115) 110-132 (150-180)	95,000	2,000		500	CrB S	R43 310 000 R43 310 050 R43 310 100	STD
								508	P		0,50
								604	P		1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEGASO

9105 /.11 /.15 /.17 9106, 9107.3 9109 /.1 /.2 /.9	10518	<ul style="list-style-type: none"> 1061, 1063, 1065, 1066, 1080 1083, 1086, 1088, 2022, 2080 2180, 3060, 3088, 3180, 3188 5031, 5071, 6031, 6035, 6046 	6	147-191 (200-260)	120,000	3,000 3,000 3,000 6,000 6,000	 	503 501 508 604 602	Cr P P IF P Cr P P	R44 020 000	STD
9105, 9107	10518	<ul style="list-style-type: none"> 1061, 1062, 1063, 1064, 1070 1074, 2011, 2080 	6	147 (200)	120,000	3,000 3,000 3,000 6,000	 	503 501 508 604	Cr P P IF P Cr P	R44 030 000	STD
9152, 9154 9156, 9157	11946 11946	<ul style="list-style-type: none"> 1084, 5076, 6050, 6055 1087, 1187, 2081, 2082, 2089 2181, 2189, 3089, 3188, Tecno 	6 6	154-169 (210-230) 221-257 (300-350)	130,000	3,000 3,000 3,000 6,000	 	503 501 501 604	Cr P Cr P P IF Cr P	R44 000 000	STD
96 R 11 EX	11946	<ul style="list-style-type: none"> 1236 R, 1236 T, Troner 	6	265 (360)	130,000	3,500 3,000 4,000	  	504 501 604	MoB IF Cr P IF Cr P	R44 010 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PERKINS

404 C, 404 D KR, KRC KRG	2216		4	35 (47)	84,000	1,500 2,000 4,000		500	Nit S	R45 230 000 R45 230 050	STD 0,50		
								501	P IW				
								604	Nit S				
403 C-15, 403 D-15	1496		3	12-20 (16-41)	84,000	2,000 1,500 3,000		500	Nit S	R45 400 000 R45 400 050	STD 0,50		
403 D-17	1662						501	Cr P IW					
404 C-22, 404 D-22	2216						604	Nit S					
3.152, P3.152 D3.152	2500		3	31-35 (42-47)	91,480	2,385 2,385 3,160		501	P	R45 010 000	STD		
4.203, P4.203 D4.203	3300	4					41-44 (55-60)	6,335 6,335				501	P
6.305, P6.305	5000								5			66 (90)	
4.203, P4.203 D4.203	3300		4	41-44 (55-60)	91,480	6,335 6,335		601	P	R45 140 000	STD		
3.152, P3.152 D3.152	2500	3					31-35 (42-47)	2,385 2,385				600	P
6.305, P6.305	5000								5			66 (90)	
4212	3475		4	44-47 (60-64)	98,480	2,385 2,385 2,385		500	Cr P	R45 030 000	STD		
AD 4.236, D 39 C	3864	4					48-60 (65-80)	6,335				501	P
												506	P
AD 4.236, D 39 C	3864		4	57-59 (78-80)	98,480	2,385 2,385 2,385		500	Cr P	R45 070 000	STD		
6.354 V	5800	6					71-87 (97-118)	6,335 6,335				501	P
												501	P
4.40	3990	● Phaser	4		100,000	2,500 2,500		500	CrB P IF	R45 110 000	STD		
6.60	5985	● 1004-4					6	4,000				501	P
												604	Cr P




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PERKINS

1004-4	3990	• Phaser 90	4		100,000	2,500		500	MoN IF	R45 410 000	STD
1006-6	5985	• Phaser 125	6			2,500		501	P		
						4,000		604	Cr P		
T4.40	3990		4		100,000	3,500		505	Cr P	R45 120 000	STD
T6.60	5985		6			2,500		508	P		
						4,000		604	Cr P		
1004-4T, 1004-4TW	3990	• Phaser 110T, 120Ti, 160Ti	4		100,000	3,000		505	Cr P	R45 130 000	STD
1006-6T, 1006-6TW	5985	180Ti	6			2,500		501	P		
						4,000		604	Cr P		
4.248, A4.248	4065		4	53-61 (72-83)	101,054	2,385		500	Cr P	R45 420 000	STD
6.372	6372		6			2,385		500	Cr P IF		
						2,385		500	Cr P IF		
						6,335		604	Cr P		
1004.42			4		103,000	2,500		500	Cr P	R45 340 000	STD
			6			2,500		508	P		
						3,500		604	Cr P		
1103 A-33G	3300		3	28-43 (38-58)	105,000	2,500		500	Cr P S	R45 430 000	STD
1103 C-33						2,500		501	P IFU		
1104 A-44, 1104 C-44	4400		4	50-64 (67-84)		3,500		604	Cr P		
1104 D-44, 1104 E-44											
1103 A-33G, 1103 C-33	3300		3	28-68 (38-92)	105,000	3,500		504	Cr P S	R45 440 000	STD
1103 A-33T						2,500		501	P IFU		
1103 A-33TG1, -33TG2						3,500		604	Cr P		
1103 C-33T											
1103 C-33TG2, -33TG3											
1103 D-33											
1104 A-44, 1104 A-44T	4400		4	50-106 (67-142)						R45 440 050	0,50
1104 A-44TG1, -44TG2											
1104 C-E44T, -E44TA											
1104 C-44T, -44TA											
1104 C-44TG2, -44TG3											
1104 D-E44T, -E44TA											
1106 D-E66TA	6600		6	90-205 (122-279)							




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PERKINS

1104 D-44T, -44TA	4400		4	54-129 (74-173)	105,000	3,000		504	Cr P S	R45 470 000	STD		
1104 D-44TG1								501	P IFU			R45 470 050	0,50
1104 D-E44T, -E44TA								604	Cr P				
1204 E-E44TA													
1204 F-E44TA, -E44TTA													
1106 C-E66TAG2	6600		6	82-225 (111-306)									
1106 C-E66TAG3													
1106 C-E66TAG4													
1106 D-66TA, -E66TA													
1106 D-E66TAG4													
1206 E-E66TA													
1106 C-70TA	7010		6	112-233 (152-312)									
1206 E-E70TTA													
1206 E-E70TTAG3													
1206 E-E70TTAG4													

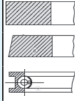
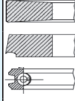
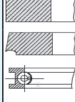
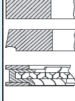
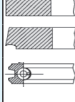
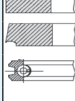
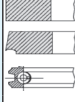
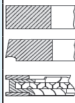
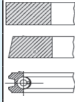
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEUGEOT

XV 3 XV 5 XV 8	954	• 104, 204, 205	4	32-35 (44-48)	70,000	2,000 2,000 4,000	  	500 501 605	Cr IF P P	R47 320 000	STD
TU 9 TU 9 M TU 9 Z	954	• 106, 205	4	32 (44)	70,000	1,500 1,500 3,000	  	500 501 700	CrB S IF P Cr P S	R47 360 000	STD
TU 1 K TU 1 M TU 1 Z	1124	• 106, 205, 306, 309, Partner	4	40-44 (54-60)	72,000	1,500 2,000 3,000	  	500 508 700	CrB S P Cr P S	R47 250 000	STD
DV4 TD 8V DV4 TED 16V	1398	• 206 HDI, 206 SW HDI Citroen	4	50 (68)	73,700	3,000 1,950 2,500	  	505 508 604	Cr P P IFU Cr P	R47 020 000	STD
DV4 TD, DV4 TED DV4 TED4	1398	• 206 1.4TD, 307 1.4TD C2 1.4HDI, C3 1.4HDI Xsara 1.4HDI	4	52-66 (71-89)	73,700	2,500 1,950 2,500	  	505 501 604	CrB P P IFU Cr P	R47 470 000	STD
8HR	1399	• C3 II 1.4 Hdi 70 DS3 1.4 Hdi 70	4	50 (68)	73,700	2,500 1,950 2,000	  	514 501 604	Cr P P IFU Nit S	R47 630 000 R47 630 050	STD 0,50
E1 F1 XZ5	1118 1219	• 309 • 104 1.2	4 4	40-46 (54-62) 42 (57)	74,000	1,750 2,000 4,000	  	500 508 700	Cr S P Cr P S	R47 370 000	STD
TU2.4 TU3, TU3 A, TU3 CP TU3 M, TU3 S	1294 1360	• 205 Rally • 106, 205, 309, 405 Partner 1.4	4 4	70 (95) 44-62 (60-84)	75,000	1,750 2,000 3,000	  	500 508 700	CrB S IF P Cr P S	R47 000 000	STD
XZ 5 XY 6 B XY 7, XY 8	1218 1360	• 104 • 104	4 4	42 (57) 44-59 (60-80)	75,000	1,750 2,000 4,000	  	500 501 700	CrB S IF P Cr P S	R47 010 000	STD










Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEUGEOT

TUD 3	1360	<ul style="list-style-type: none"> 106, 205, 306, 309, 405 1.4D 	4	37-39 (50-53)	75,000	2,250 1,750 3,000		500 501 603	Cr P P	R47 260 000	STD
DV6 TED4 9HY DV6 TED4 9HZ DV6 ATED4 9HX	1560	<ul style="list-style-type: none"> 206, 207, 308, 407, 1007 Partner, Expert HDI 206, 207, 308, 407 SW 	4	55-80 (75-110)	75,000	3,000 1,950 2,500		505 508 604	Cr P P Cr P	R47 460 000 R47 460 060	STD 0,60
TU3 JP	1360	<ul style="list-style-type: none"> 106, 206, 306, 307 Partner 1.4i 	4	55 (75)	75,000	1,500 1,500 2,500		500 508 603	Cr P P P	R47 480 000	STD
TU3 JP	1360	<ul style="list-style-type: none"> 106, 206, 306, 307 Partner 1.4i 	4	55 (75)	75,000	1,500 1,500 2,500		500 508 700	CrB Fe S IF P Cr P S	R47 580 000	STD
KFU ET3 J 4	1360	<ul style="list-style-type: none"> 1007, 206, 207, 307 1.4 i 	4	65 (88)	75,000	1,200 1,500 2,500		500 508 604	Cr P P P	R47 590 000	STD
EB2M	1199	<ul style="list-style-type: none"> 301 1.2 VTi 72 	3	53 (72)	75,000	1,000 1,000 2,000		500 508 604	Nit S P Nit S	R47 640 000	STD
EB2	1199	<ul style="list-style-type: none"> 108 1.2, 208 1.2 2008 1.2 VTi 308 II 1.2 VTi 	3	60 (82)							
EB2DT - HNZ EB2DTM - HNV EB2DTS - HNY EB2DTS - HNX EB2DTS - HNX EB2DTS - HNW	1199	<ul style="list-style-type: none"> 208 1.2 THP 308 II 1.2 THP 130 308 SW II 1.2 THP 110 / 130 2008 1.2 THP 110 / 130 3008 1.2 5008 1.2, 5008 II 1.2 Partner 1.2 THP 	3	81-96 (110-130)	75,000	1,200 1,000 2,000		500 508 604	Cr P P Nit S	R47 660 000	STD
XL 3 XL 3 S	1288	<ul style="list-style-type: none"> 304 	4	48-55 (65-75)	76,000	1,750 2,000 4,000		500 508 700	Cr S IF P Cr P S	R47 390 000	STD
TUD 5 TUD 5B	1527	<ul style="list-style-type: none"> 106 1.5D 	4	40-42 (54-57)	77,000	2,000 1,750 3,000		500 501 604	Cr P P Cr P	R47 270 000 R47 270 040	STD 0,40

























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEUGEOT

XL 4D	1360	• 204 D, 304 D	4	33 (45)	78,000	1,750 2,000 3,000		500 501 604	Cr S IF P Cr P	R47 030 000	STD
XK5	1130	• 204, 304 1.1	4	43 (58)	78,000	1,750 2,000 4,000		500 501 604	CrB S IF P P	R47 400 000	STD
XL 5S	1290	• 304 1.3	4	55 (75)							
XR 5A XR 5S	1472	• 305 1.5	4	50-65 (68-88)							
TU5 J2 TU5 JP	1587	• 106, 306, 406	4	65-74 (88-101)	78,500	1,500 1,500 3,000		500 508 700	Cr P S IF P Cr P S	R47 280 000	STD
TU5 JP4 NFU, NFX	1587	• 106, 206, 307, Partner, Saxo Xsara, Berlingo, C3	4	80 (109)	78,500	1,200 1,500 2,500		500 508 604	MoB N S P P	R47 380 000 R47 380 050	STD 0,50
TU5 JP4 NFU, NFX	1587	• 106, 206, 307, Partner, Saxo Xsara, Berlingo, C3	4	80 (109)	78,500	1,200 1,500 2,500		500 508 700	CrB Fe S P Cr P S	R47 600 000 R47 600 050	STD 0,50
NFP EC5	1587	• 301 1.6 VTi 115	4	85 (115)	78,500	1,000 1,200 2,000		500 508 604	Nit S IF P Nit S	R47 650 000 R47 650 050	STD 0,50
EF7		• Ikco Dena, Samand, Soren	4 4	84 (114) 150 (204)	78,600	1,200 1,500 2,500		500 508 700	CrB Fe S P Cr P S	R47 620 000 R47 620 050	STD 0,50
XID 80 NFU, NFX	1548	• 304 GLD, 305 GRD	4	36 (49)	80,000	1,750 2,000 3,000		500 501 604	Cr S IF P Cr P	R47 040 000 R47 040 050 R47 040 080	STD 0,50 0,80
XUD 7 TE A 8 B	1769	• 205, 309, 405	4	57-66 (78-90)	80,000	3,000 2,000 3,000		504 501 604	Cr P Cr P	R47 050 000 R47 050 050 R47 050 080	STD 0,50 0,80































Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEUGEOT

XUD 7 161 A	1769	• 205, 305, 309, 405	4	44 (60)	80,000	2,000 2,000 3,000		500	CrB S	R47 060 000 R47 060 050 R47 060 080	STD	
								501	P		0,50	
								604	Cr P		0,80	
TUD 3	1360	• 106 XTD	4	37 (50)	80,000	2,250 1,750 3,000		500	Cr	R47 330 000 R47 330 050	STD	
								501	P		0,50	
								604	Cr P			
2.7 LION TVM	2720	• 607 HDI	4	150 (204)	81,000	2,000 2,000 2,000		500	Cr P IF	R47 570 000	STD	
								501	P IFU			
								604	Nit S			
XUD 9 AY DW 8 DW 8 B	1868	• 206, 306, Partner, Xsara Jumpy, Berlingo, Dispatch	4	51 (68)	82,200	2,000 2,000 3,000		500	CrB S	R47 430 000 R47 430 060	STD	
								508	P		0,60	
								604	Cr		0,80	
XUD 9 XUD 9 A	1905	• 206, 305, 306, 309, 405 Boxer, Partner	4	48-52 (65-71)	83,000	2,000 2,000 3,000		500	CrB S	R47 070 000 R47 070 050 R47 070 080	STD	
								501	P		0,50	
								604	Cr P		0,80	
XU 51 C - CP - K XU 52 C XU 92 C	1580	• 205, 305, 309, 405	4	59-66 (80-90)	83,000	1,750 1,750 4,000		500	CrB S IF	R47 080 000 R47 080 050 R47 080 080	STD	
								508	P		0,50	
								700	Cr P S		0,80	
XU 92 C	1905	• 205, 305, 309, 405	4	90 (122)								
XU 5 J XU 5 JA XU 9 XU 9 JA	1580	• 205, 309 1.6 GTI	4	65-76 (88-103)	83,000	1,500 1,500 4,000		500	CrB S IF	R47 090 000 R47 090 050 R47 090 080	STD	
								501	P		0,50	
								700	Cr S		0,80	
XU 9 XU 9 JA	1905	• 205, 309, 405 1.9 GTI	4	70-90 (95-122)								
XU 5 JP XU 7 JP XU 9 J4	1580	• 405, 406	4	65 (88)	83,000	1,500 1,500 3,000		500	CrB Fe S IF	R47 100 000 R47 100 050 R47 100 080	STD	
								508	P		0,50	
								700	Cr P S		0,80	
XU 7 JP XU 9 J4	1761	• 305, 405, 406, 806, Partner	4	73-74 (99-100)								
XU 9 J4	1905	• 309, 405 1.9 GTI 16v	4	116 (158)								


























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PEUGEOT

XUD 9 TE XUD 9 TF	1905	• 306 1.9 D	4	68 (92)	83,000	3,500 2,000 3,000	  	504 501 604	Cr P Cr P	R47 230 000 R47 230 050 R47 230 080	STD 0,50 0,80
XUD 9 TE XUD 9 TF	1905	• 306, 309, 405, 406, 806 Expert, Boxer	4	68 (92)	83,000	3,000 2,000 3,000	  	504 501 604	Cr P P Cr P	R47 290 000 R47 290 050 R47 290 080	STD 0,50 0,80
XC 5 A XC 5 P XC 7	1618	• 404, 504 J7, J9	4	42-53 (58-73)	84,000	2,000 2,000 4,500	  	500 508 700	Cr S IF P Cr P S	R47 110 000	STD
XM 6 XM 7 XM 7 P	1796	• 504, 505	4	48-66 (65-90)	84,000	1,500 2,000 4,000	  	500 508 700	Cr S IF P Cr P S	R47 120 000	STD
DT20C Euro 5	2993	• 407 3.0 HDi	V6	177 (241)	84,000	2,000 2,000 2,000	  	500 501 604	Cr S P IFU Nit S	R47 760 000 R47 760 050	STD 0,50
DT20C Euro 5	2993	• 407 3.0 HDi	V6	177 (241)	84,000	1,750 1,750 2,000	  	500 501 604	Cr S P IFU Nit S	R47 740 000 R47 740 050	STD 0,50
XUD 11 ATE XUD 11 BTE	2088	• 406, 605, 806	4	80 (110)	85,000	3,000 2,000 3,000	  	504 501 604	Cr P P Cr P	R47 240 000	STD
EW 10 J4 EW 10 L3 EW 10 L4	1988	• 206, 307, 406, 407, 607, 806 807, Expert	4	97-101 (132-137)	85,000	1,200 1,500 2,500	  	500 508 700	NitB S IF P Nit S	R47 410 000 R47 410 040 R47 410 060	STD 0,40 0,60
EW 10 J4 EW 10 L3 EW 10 L4	1988	• 206, 307, 406, 407, 607, 806 807, Expert	4	97-101 (132-137)	85,000	1,200 1,500 2,500	  	500 508 700	NitB S IF P Nit S	R47 710 000 R47 710 025 R47 710 050	STD 0,25 0,50
DW 10 ATED DW 10 BTED DW 10 CTED DW 12 TED4	1997 2179	• 206, 306, 307, 406, 607, 806 807, Expert, Partner 2.0 HDI • 406, 607, 807 2.2 HDI	4 4	63-81 (86-110) 100 (136)	85,000	3,500 2,000 3,000	  	505 501 604	Cr P P IFU Cr P	R47 440 000 R47 440 060	STD 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	











● PEUGEOT

DW10 B TED 4 / RHR DW10 C TED 4 / RHH DW12 M TED 4 / 4HK	1997	<ul style="list-style-type: none"> RCZ 2.0HDi, 308 2.0HDi 5008 2.0HDi, 3008 2.0HDi 807 2.0HDi, Expert 2.0HDi 	4	100-120 (136-163)	85,000	2,500 2,000 2,000	  	505 501 604	Cr P P IFU Nit S	R47 610 000 R47 610 050	STD 0,50
DW12 C	2197	<ul style="list-style-type: none"> 4007 2.2HDi, 407 2.2HDi 	4	150 (204)							
DW10CD / AHZ DW10CTED4 / RHD, RHE, RHH DW10FC / AHW DW10FD / AHR, AHX DW10FDD / AHV	1997	<ul style="list-style-type: none"> 308 2.0 HDi / II 2.0 / SW 2.0 HDi 407 2.0 HDi 508 2.0 HDi / SW 2.0 HDi 807 2.0 HDi 3008 2.0 136 / 2.0 HDi 150 5008 2.0 HDi 136 / II 2.0 Expert 2.0 / 2.0 HDi 165 Traveller 2.0 	4	94-133 (128-181)	85,000	2,000 2,000 2,000	  	503 501 604	Cr P P IF Nit S	R47 770 000 R47 770 060	STD 0,60
XU 10 C2 XU 10 J2	1998	<ul style="list-style-type: none"> 406, 605, 806 	4	84-108 (114-147)	86,000	1,500 1,750 3,000	  	500 508 700	CrB S P Cr P S	R47 130 000	STD
XU 10 J4 RS	1998	<ul style="list-style-type: none"> 306, 806 2.0 16v 	4	120 (163)	86,000	1,500 1,500 3,000	  	500 501 700	CrB S P Cr P S	R47 300 000	STD
XUD 11 A	2138	<ul style="list-style-type: none"> 605 D 	4	61 (83)	86,000	2,500 2,000 3,000	  	500 501 604	Cr P Cr	R47 340 000	STD
P22 DTE 4HG, 4HH, 4HJ 4HU, 4HV	2198	<ul style="list-style-type: none"> Boxer 2.2 HDi 100, 110, 120 Boxer 2.2 HDi 130, 150 	4	74-110 (101-150)	86,010	2,000 2,000 2,000	  	500 508 604	Cr P IF P Nit S	R47 700 000 R47 700 025 R47 700 050	STD 0,25 0,50
159 A3.000	1581	<ul style="list-style-type: none"> Expert 	4	58 (79)	86,400	1,500 1,750 3,000	  	500 508 700	CrB Fe S P Cr P S	R47 450 000 R47 450 040 R47 450 060	STD 0,40 0,60
XD, XDP TMD 4.88 XDP 6.88	1948 2919	<ul style="list-style-type: none"> 404 D, 504 D U 6 D, U 8 D, U 10 D, J 7 D 	4 4	36-46 (49-63) 61 (83)	88,000	2,000 2,000 2,000 4,500	   	500 501 508 604	Cr P P P	R47 140 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
ZEJ	1995	• 505	4	77-81 (105-110)	88,000	1,750 2,000 4,000		500 508 700	CrB S IF P IF Cr P S	R47 150 000	STD
ZDJK, ZDJL	2165	• 505 TI, GTI	4	86-95 (117-130)							
XN	1971	• 504, 505 J5, J9	4	57 (77)	88,000	1,500 2,000 4,000		500 501 700	Cr P Cr P S	R47 160 000	STD
ZNJK	2849	• 604	6	114-125 (155-170)							
XDP 4.90	2112	• 504 J7, J9	4	43-55 (59-75)	90,000	2,000 2,000 2,000		500 501 508	Cr P P	R47 170 000	STD
XDP 6.90	3168	• 504 D J7 D	6	78 (106)		4,500		604	P		
ZNJK	2849	• 505, 604	6 V6	114-125 (155-170)	91,000	1,500 2,000 4,000		500 501 604	Cr S IF P Cr P	R47 350 000	STD
DK5 ATE DJ5 T THY	2446	• Boxer, 806, 605	4	76-96 (103-130)	92,000	3,000 1,750 3,500		504 501 604	MoB N IF Cr IF Cr P		
DJ5	2446	• Boxer 2.5D	4	63 (86)	92,000	2,250 2,000 3,000		500 508 604	Cr P P Cr P	R47 500 000	STD
DJ5 T DJ5 TED	2446	• Boxer 2.5TD	4	95 (129)	92,000	3,500 2,000 3,000		505 508 604	Cr P Cr		
DJ5 TED THX	2446	• Boxer 2.5TD	4	79 (107)	92,000	3,500 2,000 3,500		505 508 604	MoB N P Cr P	R47 520 000	STD
U25	2499	• J5, J9	4	54-55 (73-75)	93,000	2,500 2,000 4,000		500 501 604	Cr4 Cr P Cr2 P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● PEUGEOT

U25 673	2499	• J5 TD	4	70 (95)	93,000	3,000 2,000 4,000		504 508 604	Cr P IWU Cr	R47 190 000 R47 190 050	STD 0,50
ZPJ ZPJ4	2963	• 605	6	123-147 (167-200)	93,000	1,500 1,750 3,500		500 508 604	Cr S P Cr P S	R47 200 000 R47 200 050	STD 0,50
U 25 651	2499	• J5 D	4	55 (75)	93,000	2,000 2,000 4,000		500 508 604	Cr P P Cr P	R47 420 000 R47 420 050	STD 0,50
XD 2 XD 94	2304	• 504, 505 J9	4	46-53 (63-72)	94,000	2,000 2,000 4,000		500 508 604	Cr P P Cr P	R47 210 000 R47 210 040 R47 210 060	STD 0,40 0,60
XD 3 P	2499	• 505 J9	4	51-56 (70-76)				604	Cr P	R47 210 100	1,00
XD 2 S	2304	• 505, 604	4	54-59 (73-80)	94,000	3,000 2,000 4,000		504 501 604	Cr P Cr P	R47 220 000 R47 220 040 R47 220 060	STD 0,40 0,60
XD 3 T XD 3 TE	2499	• 505, 604	4	66-81 (90-110)				604	Cr P	R47 220 100	1,00
8140.23.3700 /-3900 8140.43.3700 /-3728	2798	• Ducato, Daily	4	77-85 (105-115)	94,400	3,000 2,000 3,000		504 501 604	Cr P P IWU Cr P	R47 530 000 R47 530 040 R47 530 060	STD 0,40 0,60
8140.23.3700 /-3900 8140.43.3700 /-3728 8140.43S	2798	• Ducato, Daily	4	77-92 (105-125)	94,400	2,500 2,000 2,500		504 501 604	Cr P P Cr P	R47 540 000 R47 540 040 R47 540 060	STD 0,40 0,60
8140.63.2200	2798	• Ducato, New Daily, Maxi 2.8D	4	63-90 (85-122)	94,400	3,000 2,000 2,500		504 501 604	Cr P P IWU Cr P	R47 550 000 R47 550 040 R47 550 060	STD 0,40 0,60

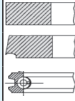
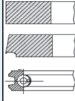
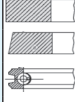
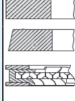
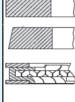
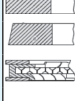
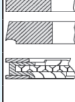
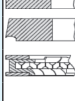
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● PORSCHE

M 96.21 M 96.24 M 96.26	3172	• Boxster S 3.2	6	185-206 (252-280)	93,000	1,200 1,500 2,000		500 501 700	NitB S P Nit S	R74 010 000	STD
M 48.00 M 48.50S	4511	• Cayenne S 4.5 Cayenne Turbo S 4.5	V8	250-368 (340-500)							
930.10 930.20, 930.21 930.25, 930.26	2993 3164	• 911 3.0 SC • 911 3.2 911 3.2 Carrera 911 3.2 Carrera Speedster	6 6	150 (204) 152-170 (207-231)	95,000	1,500 1,750 3,500		501 508 603	P IF P P	R74 020 000	STD
M 96.03 M 96.05	3596	• 911 Carrera, Carrera 4 Carrera S, Carrera 4S	6	235-254 (320-345)	96,000	1,200 1,500 2,000		500 501 700	NitB S P IF Nit S	R74 000 000	STD
64.50 M 64.01, M 64.02 M 64.03, M 64.50	3598	• 911 3.6 Carrera, 3.6 Carrera 4 3.6 Carrera RS, 3.6 Turbo Speedster 3.6 Carrera	6	184-265 (250-360)	100,000	1,500 1,750 3,000		501 508 603	P P P	R74 000 000	STD

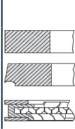
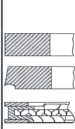
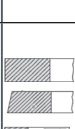


Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT

800.01	845	<ul style="list-style-type: none"> R4, R5, R6, Safari, Export 	4	25-27 (34-37)	58,000	1,750 2,000 3,500		500 508 604	Cr P P P	R49 000 000	STD	
C1C 689.01 689.10	956	<ul style="list-style-type: none"> R5 L 	4	27-33 (37-44)	65,000	1,750 2,000 3,500		500 508 604	Cr P IF P P	R49 020 000 R49 020 050	STD 0,50	
D7F F4P	1149	<ul style="list-style-type: none"> Clio, Kangoo, Twingo Modus 1.2 	4	44 (60)	69,000	1,500 1,500 2,500		500 501 604	Cr P IF P IFU Cr P	R49 330 000 R49 330 050	STD 0,50	
D7F F4P	1149	<ul style="list-style-type: none"> Clio, Kangoo, Twingo Modus 1.2 	4	43-74 (60-100)	69,000	1,200 1,500 2,500		500 501 700	Cr B S IF P IFU Cr P S	R49 520 000 R49 520 050	STD 0,50	
C1C 688	1108	<ul style="list-style-type: none"> R4, R5, R6, R8, R9, R10, R11 R1132, R1136, R2132, R2134 R2420, R2430 	4	25-39 (34-53)	70,000	1,750 2,000 3,500		500 501 700	Cr S IF P Cr P S	R49 030 000	STD	
688	1108	<ul style="list-style-type: none"> R6, R8, R9, R10 	4	33 (45)	70,000	2,000 2,000 3,500		500 501 700	Cr S IF P Cr P S	R49 340 000	STD	
C1G	1237	<ul style="list-style-type: none"> R5, R9, R11 	4	40 (54)	71,500	1,750 2,000 4,000		500 508 700	Cr S P Cr P S	R49 040 000	STD	
H4B 400, 401, 408 H4D 400	898	<ul style="list-style-type: none"> Capture 0.9 TCe 90 Clio IV 0.9 TCe 90 Thalia IV 0.9 TCe Twingo III 0.9 TCe 90 / 110 Twingo III 1.0 SCe 70 	3	66-80 (90-109)	72,200	1,200 1,500 2,000		500 508 700	Nit S IF P Nit S	R49 580 000 R49 580 050	STD 0,50	
H5F 400, 402, 403 H5F 404, 408, 412	1198	<ul style="list-style-type: none"> Capture 1.2 TCe 120 Grand Scenic III 1.2 TCe Grand Scenic IV 1.2 TCe 115 / 130 Kadjar 1.2 TCe 130 Kangoo 1.2 TCe 115 Megane CC 1.2 TCe / III 1.2 TCe Megane IV 1.2 TCe 100 / 130 	4	84-97 (115-132)								

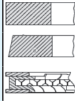
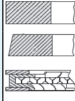
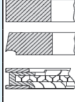
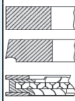
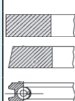
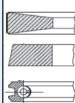
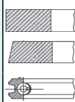
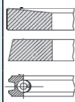
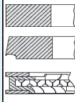
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT

B7 C7 810	1289	• R5, R6, R10, R12 R1170, R1171 R2126, R2136, R2137	4	27-44 (37-60)	73,000	1,750 2,000 4,000		500 508 700	Cr S P Cr P S	R49 050 000	STD
C3G	1237	• Clio, Twingo, Rapid, Express	4	40 (55)	74,000	1,500 1,750 3,000		500 508 700	Cr S IF P Cr P S	R49 240 000	STD
129 A7.00 XZ7 R 150 A7.00	1237 1390	• R14 • R14	4 4	42-51 (57-71) 44-52 (59-73)	75,000	1,750 2,000 4,000		500 508 700	CrB S IF P Cr P S	R49 060 000	STD
E7F E6J, E7J R7J	1171 1390	• Clio 1.2 • Clio, Express, Kangoo 1.4	4 4	44 (60) 55-59 (75-80)	75,800	1,500 1,750 3,000		500 501 700	CrB Fe S IF P Cr P S	R49 260 000	STD
E7F E6J, E7J R7J	1171 1390	• Clio 1.2 • Clio, Express, Kangoo 1.4	4 4	44 (60) 55-59 (75-80)	75,800	1,500 1,750 3,000		500 501 604	Cr P P IF P	R49 410 000	STD
C1J, C2J, C3J JL 17, JJ 15 847	1390	• R5, R9, R11, R19	4	43-53 (59-72)	76,000	1,750 2,000 4,000		500 508 700	Cr S IF P Cr P S	R49 070 000	STD
K9K	1461	• Twingo, Clio, Megane, Laguna Modus, Scenic, Kangoo 1.5 dCi	4	48-60 (65-81)	76,000	2,000 2,000 2,500		500 501 604	Cr P IF P IFU Cr P	R49 400 000 R49 400 050	STD 0,50
C 2L 807, 821	1565	• R11 Rainbow, R21 Optima	4	49-69 (66-94)	77,000	1,750 2,000 4,000		500 508 603	Cr P P P	R49 350 000	STD
F8D F8M	1596	• R5, R9, R11	4	40 (55)	78,000	2,000 2,000 3,000		500 501 604	Cr S P Cr	R49 080 000 R49 080 050 R49 080 100	STD 0,50 1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● RENAULT

H4J	1397	• Scenic III, Megane III	4	96 (131)	78,000	1,200 1,200 2,000		500 501 700	NitB S IF P Nit S	R49 500 000 R49 500 050	STD 0,50
C7, D7 841 843	1647	• R16, R18, Fuego	4	58-70 (79-96)	79,000	1,750 2,000 4,000		500 501 700	Cr S IF P Cr P S	R49 090 000	STD
K4J K4M	1390 1596	• Clio 1.4 • Megane, Scenic 1.6	4 4	70 (95) 77 (105)	79,500	1,200 1,500 2,500		500 508 700	CrB Fe S P Cr P S	R49 270 000	STD
K4J K4M K7M	1390 1596	• Clio 1.4 • Clio, Kangoo, Megane Scenic, Moduz 1.6	4 4	72 (98) 79-85 (107-115)	79,500	1,500 1,500 2,500		500 508 700	CrB Fe S IF P Cr P S	R49 280 000	STD
F8Q	1870	• R19, R21 Clio, Express, Megane Kangoo 1.9 D	4	40-48 (55-65)	80,000	2,000 2,000 3,000		500 501 604	CrB S P Cr P	R49 100 000 R49 100 050 R49 100 080 R49 100 100	STD 0,50 0,80 1,00
F8Q	1870	• R19, Megane, Scenic 1.9 T	4	66-70 (90-95)	80,000	2,500 2,000 3,000		504 501 604	Cr P Cr P	R49 250 000 R49 250 050	STD 0,50
F9Q	1870	• Clio, Laguna, Scenic, Kangoo Megane 1.9 dTi	4	72-74 (98-100)	80,000	2,500 2,000 3,000		500 501 604	Cr P IF P IFU Cr P	R49 380 000 R49 380 050	STD 0,50
R9M	1598	• Megane, Scenic	4	96 (130)	80,000	2,000 1,750 2,000		503 501 604	Cr P P IF Cr P	R49 510 000 R49 510 050	STD 0,50
F2N F3N	1721	• R9, R11, R19, R21	4	60-66 (82-90)	81,000	1,750 2,000 3,000		500 508 700	CrB S IF P Cr P S	R49 110 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT

F7P	1763	• Clio 1.8 16v	4	99-101 (135-137)	82,000	1,500 1,500 3,000		500 500 700	Cr S Fe P Cr P S	R49 290 000	STD
F3P	1784	• Clio 1.8	4	70 (95)	82,700	1,500 1,750 3,000		500 501 700	CrB Fe S IF P Cr P S	R49 300 000 R49 300 050	STD 0,50
F3R	1998	• Laguna, Espace 2.0	4	70-84 (95-114)							
F4R 770 F4R 771	1998	• Megane II 2.0 16v Scenic II 2.0 16v	4	99-103 (135-140)	82,700	1,200 1,500 2,000		500 508 700	NitB S P Cr P S	R49 430 000 R49 430 050	STD 0,50
N7Q	1948	• Laguna 2.0i 16v, Safrane	4	100-102 (136-139)	83,000	1,200 1,500 2,500		500 508 700	NitB S P Nit S	R49 460 000 R49 460 050	STD 0,50
M9R	1995	• Megane II, Laguna II Bus 120, Bus cDI 120 Traffic II	4	66-84 (90-114)	84,000	2,500 2,000 2,000		503 501 604	Cr P Cr P IFU Nit S	R49 470 000 R49 470 050	STD 0,50
M9T	2298	• Master Dci 100 2.3 Master Dci 125 2.3	4	75-110 (100-150)	85,000	2,500 2,000 2,000		503 501 604	Cr P Cr P IFU Nit S	R49 480 000 R49 480 050	STD 0,50
J8S	2068	• R18, R20, R21, R25 Master, Nevada	4	47-49 (64-67)	86,000	2,000 2,000 4,000		500 501 604	Cr IF P IW Cr P	R49 130 000	STD
J8S ATMO	2068	• R21, R25	4	65 (88)	86,000	2,250 2,000 3,000		500 501 604	Cr P Cr P	R49 140 000	STD
J8S	2068	• R18 TD, R20 TD, R21 TD R25 TD, R30 TD Fuego, Nevada, Espace TD	4	62-65 (85-88)	86,000	2,500 2,500 4,000		504 508 604	Cr P P Cr P	R49 150 000	STD
J8S	2068	• R18, R20, R25, R30 Fuego, Nevada, Espace	4	62-65 (85-88)	86,000	2,500 2,500 3,000		504 508 604	Cr P Cr P	R49 160 000	STD



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT

G8T	2188	• Laguna, Espace, Safrane 2.2 D	4	61-62 (83-85)	87,000	2,500 1,750 2,500		500 501 604	Cr P IF P IFU Cr P	R49 310 000	STD
G8T	2188	• Laguna, Espace, Safrane 2.2	4	83 (113)	87,000	3,500 1,750 2,500		504 501 604	Cr P P IFU Cr P	R49 320 000	STD
G9T 722	2188	• Laguna 2.2 TDCI Master 2.2 TDCI Espace IV 2.2 TDCI	4	110 (150)	87,000	3,000 1,750 2,500		503 501 604	Cr P P IFU P	R49 440 000 R49 440 050	STD 0,50
J7R J7T	2165	• R20, R21 Master, Trafic, Espace	4	75-92 (102-126)	88,000	1,750 2,000 4,000		500 508 700	Cr B S IF P IF Cr P S	R49 170 000	STD
J7R J7T	1995	• R20, R21 Master, Trafic, Espace	4	100 (136)	88,000	1,500 1,750 3,000		500 508 700	Cr S IF P Cr P S	R49 180 000	STD
Z7V	2664	• R25, R30 2.7	V6	104 (141)	88,000	1,500 2,000 4,000		500 501 700	Cr P Cr P S	R49 360 000	STD
G9U 720 /724 /730 750 /754	2463	• Master 2.5 DCI	4	84 (115)	89,000	2,500 1,750 2,500		500 501 604	Cr P IF P IFU Cr P	R49 450 000 R49 450 050	STD 0,50
G9U	2463	• Master Dci 2.5	4	85 (115)"	89,000	3,000 1,750 2,500		503 508 604	Cr P P Nit S	R49 490 000 R49 490 050	STD 0,50
Z6W Z7W	2849	• R25, Alpine GTA, Espace	V6	114 (155)	91,000	1,500 2,000 4,000		500 501 604	Cr S IF P Cr P	R49 190 000	STD
8140.67.2500 S8U S8W	2499	• Master	4	55 (75)	93,000	3,000 2,000 3,000		500 508 604	Cr P P Cr P	R49 010 000 R49 010 040 R49 010 060	STD 0,40 0,60




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT

8140.58 S8U	2445	• Master, Trafic 2.5 D	4	51-53 (69-72)	93,000	3,000		500	Cr P	R49 210 000 R49 210 040 R49 210 060	STD
						2,000		508	P		0,40
						4,000		604	Cr P		0,60
Z7X Z7U	2963	• Safrane 2.9, Alpine GTA	6	123-147 (167-200)	93,000	1,500		500	Cr S	R49 220 000	STD
1,750		508	P								
3,500		604	Cr P S								
8140.21, 8144.21 S8U	2445	• Master, Safrane	4	80-84 (109-105)	93,000	3,000		504	Cr P	R49 230 000 R49 230 040 R49 230 060	STD
						2,000		501	P		0,40
						3,000		604	Cr P		0,60
8140.07, 8140.27 8140.47	2499	• Master 2.5 D	4	68 (85)							
8140.43.3700	2798	• Master	4	77-85 (105-115)	94,400	3,000		504	Cr P	R49 120 000 R49 120 040 R49 120 060	STD
						2,000		501	P IWU		0,40
						3,000		604	Cr P		0,60
8140.43S	2798	• Mascott 130	4	77-92 (105-125)	94,400	2,500		504	Cr P	R49 200 000 R49 200 040 R49 200 060	STD
						2,000		501	P		0,40
						2,500		604	Cr P		0,60
8140.43	2798	• Espace 3.5 24v	6	177 (241)	94,400	3,000		504	Cr P	R49 370 000 R49 370 040 R49 370 060	STD
						2,000		501	P IWU		0,40
						2,500		604	Cr P		0,60
























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● RENAULT TRUCKS

599 LE 01 712.01-04, 712.08	3017		4		98,000	3,000 2,500 2,500 4,500	   	504 501 508 604	Cr P P Cr	R50 100 000	STD	
712.01-04, 712.08	3319	<ul style="list-style-type: none"> SG2, SG4, SG5, SM4, SM5, D5 T Super Goelette, Super Galion 	4	56-65 (76-88)	98,000	3,000 2,500 4,500	  	504 508 604	Cr P Cr	R50 150 000	STD	
597	5278	<ul style="list-style-type: none"> SM7 -F3000, F3500, -F4000 -F4500, SM8 -F3000 	6	92 (126)	100,000	3,000 2,500 2,500 5,000	   	504 501 501 604	Cr P P Cr P	R50 030 000	STD	
720.01-03, 720.08 720.12	3593	<ul style="list-style-type: none"> SG5, SG5 C, SM5 JK 60, -65, -75, 90 	4	67-73 (92-100)	102,000	3,000 2,500 5,000	  	504 501 604	Cr P Cr	R50 000 000	STD	
797 D 0216 MXU	5489	<ul style="list-style-type: none"> SM7, SM8 SM8-13, SM8-TM SM8-TY, SC28, SC29 JN75, JN90, JP11, JP13 	6	98-110 (133-150)								
798	5489	<ul style="list-style-type: none"> SM8-TU, JP11 T, JP13 T JR1, JN75 	6	109-125 (148-170)	102,000	3,000 2,500 2,500 5,000	   	504 501 501 604	Cr P P Cr	R50 010 000	STD	
MIDR 602.026 D	6177	<ul style="list-style-type: none"> G 230.13, G 230.15, G 230.16 G 230.18, G 230.19 M 230 	6	166 (226)	102,000	3,500 2,500 4,000	  	504 501 604	Cr P Cr	R50 110 000	STD	
MIDR 602.026 D	6177	<ul style="list-style-type: none"> G 230.ti 	6	166 (226)	102,000	3,500 2,500 4,000	  	504 501 604	Mo Cr P Cr P	R50 220 000	STD	
D 0836 M, MH, MU HM3, HM, HMN HMU, HM2, HM7	7030	<ul style="list-style-type: none"> S45 GT, S53 M, S105 M, SC10 SM10, -12, -170, -170L JM 170G, -170N, -170XL 	6	99-118 (135-160)	108,000	2,500 2,500 5,000	  	500 501 604	Cr P Cr P	R50 020 000	STD	
D 0846 HM2, HMN2, HMY	7252	<ul style="list-style-type: none"> SM 10, -12, -21, -170, 180H E 7 N, E 7 L 	6	117-132 (160-180)								














Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● RENAULT TRUCKS

MID 620.30 MIP 620.30 MIDR 620.30 MIDS 620.30	8822	<ul style="list-style-type: none"> GB-, GC-, GF-, GLR 190, GR 191 PR14 -GL, -SLG C 210, G 210, G 230 HB 15, HB 17, HB 19, HB 26 	6	136-194 (185-264)	120,000	3,250 3,000 4,000	  	504 501 604	Cr P Cr	R50 040 000	STD
MIDR 620.45 MIDS 620.45	9839	<ul style="list-style-type: none"> C 260.26, C 260.19 T, C 279 T G 260, G 280 	6	191-206 (260-280)							
MIDR 620.45 MIDS 620.45	9839	<ul style="list-style-type: none"> PR100, PR180, PER180 C260, G260, G260.6, G260.15 G260.16, G260.17, G260.19 G260.24, G.260.26, G300 	6	136-186 (185-253)	120,000	3,500 3,000 4,000	  	504 501 604	Cr P Cr	R50 120 000	STD
MIDR 620.45 MIPS 620.45	9839	<ul style="list-style-type: none"> C 260.26, C 260.19 T, C 279 T G 260, G 280 	6	191-206 (260-280)							
MIDS 620.30	8820	<ul style="list-style-type: none"> G210.19, G230.19, GB231 GC231, GF231, GLR230 TB231, PR10, PR12, PR14 950 KB6, 950 KTB6 	6	153-169 (208-230)	120,000	3,250 3,000 3,000 4,000	   	504 501 508 604	Cr P P Cr	R50 140 000	STD
MIDR 620.45 MIDS 620.45	9839	<ul style="list-style-type: none"> C 260.26, C 260.19 T, C 279 T G 260, G 280 	6	191-206 (260-280)	120,000	3,500 3,000 4,000	  	504 501 604	Cr Cr P IF Cr	R50 210 000	STD
MIDR 06.23.56.A3 MIDR 06.23.56.A41 MIDR 06.23.56.B41	11122	<ul style="list-style-type: none"> Kerax 385, Kerax 400 Premium 365, Premium 400 Ares 380 	6	266-288 (361-381)	123,000	3,500 3,000 4,000	  	504 501 604	Cr P Cr	R50 130 000	STD
MDS 635.40 MIDS 635.40	12024	<ul style="list-style-type: none"> CBH 280, GBH 280 	6	206 (280)	135,000	3,500 3,000 6,000	  	504 501 604	Cr P Cr	R50 050 000	STD
MDS 635.40 MS 635 T	12024	<ul style="list-style-type: none"> TR 280, TLR 280, GR 280N GR 280L, GR 280EL, GBH 280N GR 305, GRH 305, TRH 305 TRH 310 	6	191-224 (260-305)	135,000	3,500 3,000 3,000 6,000	   	504 501 501 604	Cr P P P Cr P	R50 060 000	STD


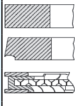
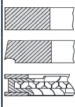
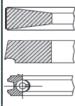
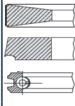
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● RENAULT TRUCKS

MIDR 0635.40 M3	12024	• CBH 320, CLM 320, GBH 320	6	235 (320)	135,000	4,000 3,000 4,000	  	504 501 604	Cr P Cr	R50 070 000	STD
MIDR 0635.40 G2 MIDR 0635.40 H2	12024	• R 340, R 350, R 365, R 380 AE 380	6	255-275 (346-374)							
MIDR 0635.40 L1 MIDR 0635.40 N3	12024	• R 385, AE 385 CLM 385, CBH 385, GBH 385	6	283 (385)							
MIDR 0635.40 J1 MIDR 0635.40 J3	12024	• R 420, AE 420	6	305-309 (415-420)							
MIVS 0835.30	14886	• GR 350, GRH 350, TR 350 TRH 350	6	262 (356)	135,000	3,500 3,000 3,000 4,000	   	504 501 501 604	Cr P P Cr	R50 080 000	STD
MIDR 0635.40 C	11941	• R 310 T	6	224 (305)	135,000	3,500 3,000 4,000	  	504 501 604	Cr P Cr		
MIDR 0635.40	12024	• R 305, R 310, PX 30	6	226 (308)						R50 090 000	STD
MIVR 0835.30 MIVS 0835.30	14886	• GR 350, TR 350 R 360, R 360 T, R 370 R 390, R 420	6	262-286 (356-389)							
MIDR 0635.40 M3	12024	• CBH 320, CLM 320, GBH 320	6	235 (320)	135,000	4,000 3,000 4,000	  	504 501 604	Cr Cr IW Cr		
MIDR 0635.40 G2 MIDR 0635.40 H2	12024	• R 340, R 350, R 365, R 380 AE 380	6	255-275 (346-374)						R50 190 000	STD
MIDR 0635.40 L1 MIDR 0635.40 N3	12024	• R 385, AE 385 CLM 385, CBH 385, GBH 385	6	283 (385)							
MIDR 0635.40 J1 MIDR 0635.40 J3	12024	• R 420, AE 420	6	305-309 (415-420)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● ROVER

11 K2D 11 K4F	1120	<ul style="list-style-type: none"> 100 Metro 111, 25 1.1 100 Convertible 111 200 Hatchback 211 	4	44-55 (60-75)	75,000	1,000 1,200 2,000		500 508 700	Nit S P Nit S	R70 040 000	STD
14 K2A /D /F 14 K4C /D /F /M	1396	<ul style="list-style-type: none"> 100 Metro 114 S /L /GTA 100 Convertible 114 200 Hatchback 214 200 214i, 400 414 Streetwise 1.4 	4	55-77 (75-105)							
16 K4F	1588	<ul style="list-style-type: none"> 25 1.6, 45 1.6, 200 216 Si 400 416 Si 	4	81 (110)	80,000	1,000 1,200 2,000		500 508 700	Cr P S P Nit S	R70 050 000	STD
18 K4F	1796	<ul style="list-style-type: none"> 25 1.8, 45 1.8, 45 Saloon 1.8 200 218 Si, 75 1.8 	4	87-88 118-120							
18 K4K	1796	<ul style="list-style-type: none"> 25 1.8, 45 1.8, 200 218 K Vi 400 Tourer 1.8i 	4	107-110 (146-150)							
25 K4F	2497	<ul style="list-style-type: none"> 75 2.5 V6, 800 825 Si 800 2.5, 800 2.5 Si 	V6	129 (175)	80,000	1,200 1,500 2,500		500 508 700	Cr P P Cr P S	R70 060 000	STD
KV 6	2497	<ul style="list-style-type: none"> 75 2.5 V6 75 Tourer 2.5 V6 		130 (177)							
M 47	1951	<ul style="list-style-type: none"> 75 2.0 CDT 75 Tourer 2.0 CDT 	4	85 (116)	84,000	3,000 2,000 3,000		504 508 604	Cr P P Cr P	R70 080 000	STD
20 T2N 20 T2R	1994	<ul style="list-style-type: none"> 25 2.0 iDT, 45 2.0 iDT 200 220 Sdi /-D /-SD 400 420 Sdi /-D, 600 620 Sdi 	4	63-83 (86-113)	84,450	3,000 2,000 3,000		504 508 604	Cr P P Cr P S	R70 070 000 R70 070 050	STD 0.50














Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

SAME

953		<ul style="list-style-type: none"> Delfino Minitauro 	2		95,000	2,500		500	Cr P	R90 000 000	STD
			3					501	P IF		
								501	P IF		
								604	Cr P		
982, 983, 984	3619	<ul style="list-style-type: none"> Sirenetta, Delfino 35, Drago Aurora 45, Corsaro 70, Falcon Vigneron, Panther, Same 047 Tiger SIX 105, Corsaro 70 SY 	2		98,000	2,500		500	Cr P IF	R90 010 000	STD
			3					501	P IW		
			4					506	P		
								604	Cr P		
985, 986 L	4524		5								
			6								
		<ul style="list-style-type: none"> Italia 35 Italia 70 	2		100,000	2,500		500	Cr P	R90 020 000	STD
			4					501	P		
								506	P		
								604	Cr P		
								600	P		
		<ul style="list-style-type: none"> Panther, Tiger SIX Corsaro, Condor 	2		100,000	2,500		500	Cr P	R90 030 000	STD
			3					501	P		
			4					506	P		
			5					604	Cr P		
			6								
105.3	3166	<ul style="list-style-type: none"> Taurus, Jaguar, Buffalo Leopard 	3		105,000	2,500		500	Cr P IF	R90 040 000	STD
105.4	4156		4					501	P		
105.6	6234		6					506	P		
								604	Cr P		
105.4 PT	4156	<ul style="list-style-type: none"> Buffalo, Leopard 	4		105,000	2,500		500	Cr P IF	R90 050 000	STD
105.6 PT	6234		6					506	P		
1053 P	3116	<ul style="list-style-type: none"> Taurus, Minotaurus Vigneron Centurion, Mercury Leopard, Saturno Jaguar Drago, Trident, Laser, Buffalo 	3	43-46 (58-63)	105,000	2,500		500	Cr P IF	R90 060 000	STD
1054 P	4156		4	55-62 (75-84)		2,500		501	P		
1055 P	5195		5	69-74 (94-100)		2,500		506	P		
1056 P	6234		6	85-107 (115-145)		5,000		604	Cr P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● SAME

1000.3 AT		• Gamma	3		105,000	3,000		500	Cr P IW	R90 070 000	STD
1000.4 AT			4			2,500		501	P		
1000.6 AT			6			4,000		604	Cr P		
1000.3 AT /WT /W /A			3		105,000	3,000		500	Cr P IW	R90 080 000	STD
1000.4 AT /WT /W /A			4			2,500		500	Cr P IF		
1000.6 AT /WT /A			6			4,000		604	Cr P		
		• DA 12 /18	1		110,000	3,000		500	Cr P	R90 090 000	STD
		• DA 25 /30	2			3,000		501	P		
		• DA 38 /47	3			3,000		506	P		
		• DA 55 /67	4			6,000		600	P		
H496, H5116			4		110,000	3,000		500	Cr P	R90 100 000	STD
H6136			6			3,000		501	P		
						6,000		604	Cr P		

















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● SCANIA

D8 01, D8 05 D8 06 DN8 01 DSJ 8 01	7800	<ul style="list-style-type: none"> L/LB 80S, L/LB 81S, L/LB 85S L/LB 86S, G 82M, T 82 H/M P 82 H/HB/M/MA, BF/BR 86 	6	120-170 (163-231)	115,000	2,385		500	Cr P	R51 020 000	STD
							2,385		501		
DN 9 01	8724		6	150-162 (204-220)		4,747		604	Cr P		
D 8 DS 8 DSJ 8	7800	<ul style="list-style-type: none"> L/LB 80, L/LB 81, G 82, P 82 T 82, L/LB 85, L/LB 86 	6	120-153 (163-208)	115,000	2,385		500	Cr P	R51 030 000	STD
						2,385		501	P		
						2,385		501	P		
						4,747		604	Cr P		
DS 9 05 / 06 / 08	8471	<ul style="list-style-type: none"> D / P / R / T -92 	6	155-185 (211-252)	115,000	3,160		504	Cr IW	R51 040 000	STD
								2,385			
DS 9 01 DSC 9 01 / 02	8724		6	180-207 (245-282)		4,747		604	Cr P		
DS 9 05 / 06 / 08	8471	<ul style="list-style-type: none"> D / P / R / T -92 	6	155-185 (211-252)	115,000	3,160		504	Cr P IW	R51 140 000	STD
								2,385			
DSC 9 02 / 44	8724		6	180-207 (245-282)		3,500		604	Cr P		
D 10 DS 10	10260	<ul style="list-style-type: none"> LA 75, LS 75, LT 75 	6		127,000	3,160		500	Cr P	R51 050 000	STD
						3,160		501	P		
						3,160		501	P		
						6,335		604	Cr P		
						6,335		600	P		
D 11 DN 11 01 DS 11 01 / 02 DS 11 14 / 15 / 18	11000	<ul style="list-style-type: none"> L/LB 110, L/LB/LS/LBS 110S L/LB/LS/LBS 111, LBS/LBT 111S LT/LBT 111 BB, LBT 111 FB SBA/SBAT 111, T 112 H/E G 112 M, R 112 M/MA/H/E P 112 M/MA/H/E, K 112 	6	149-245 (203-333)	127,000	2,385		500	Cr	R51 070 000	STD
						2,385		501	P IW		
						4,747		604	Cr P		
D 11 DS 11	11000	<ul style="list-style-type: none"> L/LS/LB 110 	6	143-202 (195-275)	127,000	2,385		500	Cr	R51 080 000	STD
D 14 DS 14	14200	<ul style="list-style-type: none"> L/LB/LBS 140 	V8	148-275 (202-375)		4,747		604	Cr P		






















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● SCANIA

DS 14 01 / 02 / 06 DSI 14 DSC 14	14200	<ul style="list-style-type: none"> 141, 142, 146 L/LB/LS/LBS/LBT 140 L/LB/LS/LBS/LBT 141 S R 142 M/MA/H/E, LT 145 R/T 142 H 	V8	257-316 (350-430)	127,000	3,160 2,385 4,747	  	504 501 604	Cr IW P IW Cr	R51 090 000	STD
DS 11, DSC 11 DTC 11	11000	<ul style="list-style-type: none"> 112, 113 Series P/R/T 113, R 113 MA 	V8	220-280 (300-381)	127,000	3,500 2,385 4,747	  	504 501 604	Cr IW P IW Cr	R51 100 000	STD
DSC 14 03 / 04 DSC 14 05 / 06	14118	<ul style="list-style-type: none"> R/T 142 	V8	290-345 (394-470)							
DS 14, DSC 14 J DSC 14 08 / 09 / 10	14181	<ul style="list-style-type: none"> R/T 143 	V8	300-368 (408-500)							
DS 11	11000		6		127,000	3,160 2,385 2,385 4,747	   	504 501 501 604	Cr P IW P IW P IW Cr P	R51 110 000	STD
D 11 DN 11 DS 11	11000	<ul style="list-style-type: none"> L/LB 110, L/LB 110 S L/LB/LBS 111, SBA 111 T 112 E/H 	6	149-202 (203-275)	127,000	3,500 2,385 4,747	  	500 501 604	Cr P IW Cr	R51 120 000	STD
DSC 11 27, Euro 2	11000	<ul style="list-style-type: none"> R 113 H, Bus 	6	200-280 (272-381)	127,000	3,500 2,385 3,500	  	504 501 604	Cr IW P IW Cr P	R51 130 000	STD
DSC 12 01 / 02 Euro 2 / 3	11700	<ul style="list-style-type: none"> R 124 	6	265-325 (360-442)							
DSC 14	14181		V8								







Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● SEAT

100 G.000	844	• 850	4	25 (34)	65,000	1,750		500	Cr S IF	R52 000 000 R52 000 040 R52 000 060	STD
						2,000		508	P		0,40
						3,947		700	Cr P S		0,60
127 A.000 A 112 A5	903	• Ibiza, Marbella	4	34 (46)							
MN	1272	• Terra 1.3 D	4	33 (44)	75,000	1,750		500	CrB Fe S IF	R52 010 000 R52 010 050 R52 010 100	STD
						2,000		508	P		0,50
						3,000		603	P		1,00
1W	1398	• Terra 1.4 D	4	35 (48)							
021 A.1000 021 C.1000	1193	• Ibiza, Malaga, Ronda Cordoba 1.2	4	46-51 (63-70)	75,000	1,500		500	Cr S IF	R52 020 000 R52 020 050	STD
						1,750		508	P		0,50
						4,000		700	Cr P S		
AAU, AEV	1043	• Ibiza 1.0	4	33 (44)	75,000	1,500		500	CrB Fe S IF	R52 090 000 R52 090 050 R52 090 100	STD
						1,500		501	P		0,50
						2,500		700	Cr P S		1,00
ABD	1391	• Cordoba 1.4, Ibiza 1.4	4	40-44 (55-60)							
AAV 2G	1272	• Ibiza 1.3 i	4	40 (54)	75,000	1,750		500	CrB Fe S IF	R52 100 000 R52 100 050 R52 100 100	STD
						2,000		508	P		0,50
						3,000		700	Cr P S		1,00
AEX, AFH, AFK, AHW AKK, AKV, ANM ANW, APE, AQQ AUA, 'AUB, AUD, AXP BBY, BBZ, BCA	1390	• Cordoba, Ibiza, Inca, Leon Toledo 1.4i 16v	4	44-74 (60-100)	76,510	1,200		500	NitB S IF	R52 110 000 R52 110 050 R52 110 100	STD
						1,500		508	P		0,50
						2,500		700	Cr P S		1,00
AEE	1598	• Cordoba, Ibiza, Inca 1.6i	4	55 (75)							
ABU	1598	• Cordoba, Ibiza 1.6i	4	55 (75)	76,510	1,500		500	CrB Fe S IF	R52 120 000 R52 120 050 R52 120 100	STD
						1,500		508	P		0,50
						2,500		700	Cr P S		1,00



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● SEAT

AMF	1422	• Arosa, Ibiza, Cordoba 1.4 TDI	3	55 (75)	79,510	1,750 2,000 3,000		500 501 604	CrB Fe S P IFU Cr	R52 030 000 R52 030 050 R52 030 100	STD 0,50 1,00
AAZ, AEF, AMF 1Y, 1Z AEY, AGR, AHF, AHU ALH, AQM, ARL, ASK ASV, ATD, AUZ, AYQ	1896	• Cordoba, Inca, Ibiza Toledo 1.9 DI / DI Cordoba, Inca, Ibiza, Leon Toledo 1.9 TDI	4	47-81 (64-110)							
CLHA, CLHB CRKB	1598	• Leon 1.6 TDI, Leon SC 1.6 TDI Leon ST 1.6 TDI	4	66-81 (90-110)	79,510	1,750 2,000 2,000		500 501 604	Cr P P IF Nit S	R52 210 000 R52 210 050	STD 0,50
132 A.9000 A32 B.9000	1592	• Ronda 1.6	4	43 (58)	80,000	1,500 2,000 4,000		500 508 700	CrB Fe S P Cr P S	R52 130 000 R52 130 040 R52 130 060 R52 130 080	STD 0,40 0,60 0,80
BFQ, BGU, BSE, BSF	1595	• Altea, Leon, Toledo 1.6	4	75 (102)	81,010	1,000 1,200 2,000		500 508 700	NitB S P Nit S	R52 140 000 R52 140 050 R52 140 100	STD 0,50 1,00
AEH, AKL, AFT, AKS APF, AUR	1595	• Ibiza, Leon, Cordoba Leon 1.6	4	74-75 (100-101)	81,010	1,200 1,500 2,000		500 508 700	NitB S IF P Nit S	R52 150 000 R52 150 050 R52 150 100	STD 0,50 1,00
1F	1595	• Cordoba, Ibiza, Inca Toledo 1.6i	4	53-55 (72-75)	81,010	1,500 1,750 3,000		500 508 700	CrB S IF P Cr P S	R52 160 000 R52 160 050 R52 160 100	STD 0,50 1,00
ABS, ADZ KR, PL	1781	• Cordoba, Ibiza, Toledo 1.8 16v	4	66-98 (90-133)							
AGZ, AQN	1781	• Toledo 2.3	V5	110-125 (150-170)							
AUE, AYL	2797	• Leon, Alhambra 2.8	V6	150 (204)							

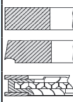
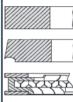
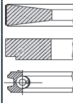
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● SEAT

1F	1595	• Cordoba, Ibiza, Inca Toledo 1.6i	4	53-55 (72-75)	81,010	1,500		500	CrB S IF	R52 170 000 R52 170 050 R52 170 100	STD	
	ABS, ADZ KR, PL	1781	• Cordoba, Ibiza, Toledo 1.8 16v	4		66-98 (90-133)	1,750		508		P	0,50
							3,000		604		Cr	1,00
AGZ, AQN	1781	• Toledo 2.3	V5	110-125 (150-170)								
AUE, AYL	2797	• Leon, Alhambra 2.8	V6	150 (204)								
AGN, AJH, AJQ, APP ARY, AQX, AUQ AWC, AYP, AMK BAM, BJX	1781	• Leon, Toledo 1.8T 20v	4	92-132 (125-180)	81,010	1,500		500	CrB Fe S IF	R52 180 000 R52 180 050 R52 180 100	STD	
						1,750		508	Fe		0,50	
						2,000		700	Nit S		1,00	
	1968	• Leon, Toledo, Altea Alhambra 2.0 TDI	4	103-125 (140-170)	81,010	2,500		500	Cr P	R52 190 000 R52 190 050 R52 190 100	STD	
						2,000		501	P		0,50	
						3,000		604	Cr P		1,00	
AAD, ABK, ABF ADY, AGG	1984	• Cordoba, Toledo, Ibiza 2.0i	4	85-110 (115-160)	82,510	1,200		500	NitB S IF	R52 040 000 R52 040 050 R52 040 100	STD	
						1,500		501	P		0,50	
						2,000		700	Cr P S		1,00	
CDHA	1798	• Exeo 1.8 TSI	4	88 (120)	82,500	1,200		500	NitB S IF	R52 200 000 R52 200 050	STD	
						1,200		508	P		0,50	
						2,000		700	Nit S			
CDA, CDHB	1798	• Exeo 1.8 TSI, Exeo St 1.8 TSI Alhambra 1.8 TFSI	4	118 (160)								
CJSA	1798	• Leon 1.8 TFSI Leon SC 1.8 TFSI Leon ST 1.8 TFSI	4	132 (180)								
CDND	1984	• Exeo 2.0 TFSI Exeo ST 2.0 TFSI	4	155 (211)								
BYT, BZB	1798	• Altea XI 1.8 TFSI, Altea 1.8 TFSI Toledo III 1.8 TFSI, Leon 1.8 TSI	4	118 (160)	82,500	1,200		500	NitB S IF	R52 220 000 R52 220 050	STD	
						1,500		508	P		0,50	
						2,000		604	Nit S			
CDLA, CDLD	1984	• Leon 2.0 Cupra, Leon 2.0 TFSI	4	177-195 (240-265)								

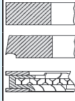
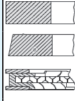
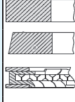
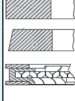
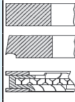
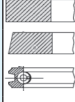
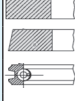
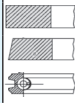
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● SEAT

	1675	• Ibiza	4	79 (107)	83,000	1,500 1,750 3,000		500 508 700	CrB Fe S IF P Cr P S	R52 050 000 R52 050 040 R52 050 060	STD 0,40 0,60
	1461	• Ibiza, Ronda, Malaga	4	63-66 (85-90)	83,000	1,500 1,750 4,000		500 508 700	CrB Fe S IF P Cr P S	R52 060 000 R52 060 040 R52 060 060	STD 0,40 0,60
138 A5.000 138 B6.000	1714	• Ibiza, Ronda, Malaga	4	40-43 (55-58)	83,000	2,500 2,000 4,000		504 506 604	Cr P Cr P	R52 070 000 R52 070 040 R52 070 060	STD 0,40 0,60

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● SKODA

742.12 742.12 X	1174	• S120 S /L /GL /LS, S1203	4	38-43 (52-58)	72,000	1,500 1,500 3,000		500 508 700	CrB Fe S P Cr P S	R53 060 000	STD
781.135	1280	• Favorit 1.3	4	40-50 (54-68)	75,500	2,000 2,000 4,000		500 501 700	Cr S P Cr P S	R53 040 000	STD
781.135 E 135 M	1280	• Favorit 1.3, Rapid 136	4	40-50 (54-68)	75,500	1,500 1,500 3,000		500 501 700	Cr S P Cr P S	R53 050 000	STD
BCA	1198	• Favorit 1.3, Rapid 136	3	44-51 (60-70)	76,510	1,200 1,200 2,000		500 501 700	NitB S P Nit S	R53 000 000	STD
	1390	• Favorit 1.3, Rapid 136	4	77-85 (105-115)							
	1598	• Favorit 1.3, Rapid 136	4	55-92 (75-125)							
AUA, 'AUB, AUD, AXP BBY, BBZ, BCA	1390	• Fabia, Octavia 1.4 16v	4	55-74 (75-100)	76,510	1,200 1,500 2,500		500 508 700	NitB S IF P Cr P S	R53 010 000 R53 010 050 R53 010 100	STD 0,50 1,00
AEE	1598	• Fabia, Felicia, Octavia 1.6	4	55 (75)							
AYM	2496	• Superb 2.5 TDI	6	114 (155)	78,310	1,750 2,000 3,000		500 501 604	Cr P P IFU Cr P	R53 020 000 R53 020 050 R53 020 100	STD 0,50 1,00
AEF, AGP, ASY ATD, AVB, AWX AGD, AHF, ALH AQM, ASZ	1896	• Fabia, Felicia, Octavia Superb 1.9 TDI, 1.9 TDI PD	4	47-96 (64-131)	79,510	1,750 2,000 3,000		500 501 604	CrB Fe S P IFU Cr	R53 070 000 R53 070 050 R53 070 100	STD 0,50 1,00
CLHA, CLHB CRKB	1598	• Octavia 1.6 TDI Octavia Combi 1.6 TDI	4	66-81 (90-110)	79,510	1,750 2,000 2,000		500 501 604	Cr P P IF Nit S	R53 130 000 R53 130 050	STD 0,50




Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● SKODA

BFQ, BGU	1595	• Octavia	4	75 (102)	81,010	1,000		500	NitB S	R53 080 000 R53 080 050 R53 080 100	STD
						1,200		508	P		0,50
						2,000		700	Nit S		1,00
AEH, AKL	1595	• Octavia	4	74 (100)	81,010	1,200		500	NitB S IF	R53 090 000 R53 090 050 R53 090 100	STD
						1,500		508	P		0,50
						2,000		700	Nit S		1,00
ADR, AGN	1781	• Octavia 1.8 20v	4	92 (125)	81,010	1,500		500	CrB Fe S IF	R53 100 000 R53 100 050 R53 100 100	STD
						1,750		508	Fe		0,50
						2,000		700	Nit S		1,00
	1968	• Octavia, Superb 2.0 TDI PB Yeti 2.0 TDI CR	4	103-125 (140-170)	81,010	2,500		500	Cr P	R53 110 000 R53 110 050 R53 110 100	STD
						2,000		501	P		0,50
						3,000		604	Cr P		1,00
CDAB, CDAA	1798	• Yeti 1.8 TSI 4x4 Octavia 1.8 TSI Octavia Combi 1.8 TSI 4x4 SuperB 1.8 TSI 4x4 SuperB Combi 1.8 TSI 4x4	4	112-118 (152-160)	82,500	1,200		500	NitB S IF	R53 120 000 R53 120 050	STD
						1,200		508	P		0,50
						2,000		700	Nit S		
CJSA	1798	• Octavia 1.8 TSI Octavia Combi 1.8 TSI 4x4		132 (180)							
CCZA	1984	• Octavia 2.0 RS Octavia Combi 2.0 RS SuperB 2.0 TSI SuperB Combi 2.0 TSI 4x4	4	147 (200)							
BZB	1798	• Octavia 1.8 TSI SuperB 1.8 TSI	4	118 (160)	82,500	1,200		500	NitB S IF	R53 140 000 R53 140 050	STD
						1,500		508	P		0,50
						2,000		604	Nit S		
CHHB	1984	• Octavia 2.0 TSI RS Octavia Combi 2.0 TSI RS	4	162 (220)	82,500	1,200		500	NitB S IF	R53 150 000 R53 150 050	STD
						1,200		508	P		0,50
						2,000		604	Nit S		

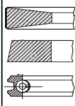
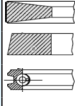
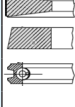
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● SMART

H4B 409 M 281.910	898	<ul style="list-style-type: none"> ForFour 0.9 / 0.9 Brabus ForTwo 0.9 / 0.9 Brabus 	3	66-80 (90-109)	72,200	1,200		500	Nit S IF	R65 000 000 R65 000 050	STD
						1,500		508	P		0,50
						2,000		700	Nit S		
M 281.920	999	<ul style="list-style-type: none"> ForFour 1.0 ForTwo 1.0 	3	45-52 (60-71)							












Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● TATA

475 IDI TCIC Euro 3	1405	<ul style="list-style-type: none"> Indigo, Indica, Marina Super Ace 	4	55 (75)	75,000	2,500 2,000 3,000		504 501 604	Mo P Cr P	R88 000 000	STD
4DLT	1948	<ul style="list-style-type: none"> Pickup Telcoline TDI 	4	66 (90)	83,000	2,500 2,000 3,000		504 501 604	Mo P IF Cr P	R88 020 000	STD
DOHC VTT	2179	<ul style="list-style-type: none"> Xenon XT Suv 2.2L VTT 	4	103 (140)	85,000	2,500 2,000 3,000		504 501 604	Mo P IF Cr P	R88 030 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● UTB

D121 45 CV	2340		4	28-38 (38-51)	95,000	2,500 2,500 5,500	  	500 508 604	Cr P IF P Cr P	R89 020 000	STD
D115			3 4	33-61 (45-83)	102,000	2,500 2,500 5,000	  	500 501 604	Cr P P P	R89 000 000	STD
D110 D113	4760	<ul style="list-style-type: none"> U50, U500, U650 M U651, U651 M 	4	48 (65)	108,000	3,000 3,000 3,000 6,000 6,000	    	500 501 506 604 603	Cr P P P P	R89 010 000	STD













Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLKSWAGEN

AER, ALD, ALL ANV, AUC	999	• Lupo 1.0, Polo 50	4	37 (50)	67,100	1,000		500	NitB S	R56 080 000 R56 080 050	STD 0,50
						1,200		501	P		
						2,000		700	Cr P S		
HA	895	• Derby, Polo	4	29 (40)	69,510	1,750		500	Cr P IF	R56 000 000 R56 000 050 R56 000 100	STD 0,50 1,00
						2,000		508	P		
FJ, GG, HB, HD	1093	• Golf, Jetta, Scirocco	4	37-38 (50-52)		4,000		603	P		
HC	1093	• Polo	4	44 (60)	69,510	1,750		500	CrB IF	R56 010 000 R56 010 050 R56 010 100	STD 0,50 1,00
						2,500		508	Fe		
						4,000		605	P		
FZ, FY, GF, GS, GT HJ, HH	1272	• Golf, Jetta, Derby, Passat Polo, Santana	4	40-44 (55-60)	75,010	1,750		500	CrB S IF	R56 020 000 R56 020 050 R56 020 100	STD 0,50 1,00
						2,000		508	P		
						4,000		700	Cr P S		
HZ	1043	• Polo, Golf, Jetta	4	37 (50)	75,010	1,750		500	CrB Fe S IF	R56 030 000 R56 030 050 R56 030 100	STD 0,50 1,00
						2,000		508	P		
						3,000		700	Cr P S		
2G, AAV, GK, GL, HK HW, MH, NU, NZ	1272	• Polo, Golf, Jetta, Derby 1.3	4	29-55 (40-75)							
EP, ZA, ZP	1296	• Passat, Santana 1.3	4	40-44 (55-60)	75,010	2,000		500	CrB Fe S	R56 040 000 R56 040 050 R56 040 100	STD 0,50 1,00
						2,500		508	P		
						4,000		700	Cr P S		
MN	1398	• Polo	4	33 (45)	75,010	1,750		500	CrB Fe S IF	R56 050 000 R56 050 050 R56 050 100	STD 0,50 1,00
						2,000		508	P		
						3,000		603	P		
1W	1272	• Polo	4	35 (48)							
EP, EU	1296	• Passat, Santana	4	44 (60)	75,010	1,500		500	CrB Fe S IF	R56 060 000 R56 060 050 R56 060 100	STD 0,50 1,00
						1,750		501	P		
						3,000		700	Cr P S		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

VOLKSWAGEN

AAU, AEV	1043	• Polo	4	33 (45)	75,010	1,500	1,500	2,500		500	CrB Fe S IF	R56 070 000 R56 070 050 R56 070 100	STD
										501	P		0,50
										700	Cr P S		1,00
3F, AAL	1272	• Polo	4	55 (75)									
ABD	1391	• Golf III, Vento	4	44 (60)									
ABU	1598	• Golf III, Vento	4	55 (75)	76,510	1,500	1,500	2,500		500	CrB Fe S IF	R56 090 000 R56 090 050 R56 090 100	STD
										508	P		0,50
										700	Cr P S		1,00
ANY, AYZ	1191	• Lupo	3	45 (61)	76,510	1,750	2,000	3,000		500	CrB Fe S	R56 100 000 R56 100 050 R56 100 100	STD
										501	P IFU		0,50
										604	Cr		1,00
1.5	1470	• Passat	4	37 (50)									
1V, CY, JR, JX, MF RA, SB, CR, CS, JK JP, ME	1588	• Golf, Jetta, Passat, Caddy T2, Santana	4	37-59 (50-80)									
1G, ACL, DV, 1E, 1S CP, DL, DW	2383	• Jetta, LT 28, LT 31, LT 35 LT 40, LT 45, LT 50, LT 55	6	52-75 (70-102)									
ANY, AYZ	1191	• Lupo	3	45 (61)	76,510	1,750	2,000	3,000		500	CrB Fe S	R56 110 000 R56 110 050 R56 110 100	STD
										501	Cr IFU		0,50
										604	Cr		1,00
AKU, AMF, ATL	1422	• Polo, Lupo	4	44-55 (60-75)									
1V, CY, JR, JX, MF RA, SB, CR, CS, JK JP, ME	1588	• Golf, Jetta, Passat, Caddy T2, Santana	4	51 (70)									
1G, ACL, DV, 1E, 1S CP, DL, DW	2383	• Jetta, LT 28, LT 31, LT 35 LT 40, LT 45, LT 50, LT 55	6	52-75 (70-102)									

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLKSWAGEN

AWY, AZQ, BMD	1198	• Polo	3	40-47 (54-64)	76,510	1,200		500	NitB S IF	R56 310 000	STD	
						1,500		508	P		R56 310 050	0,50
						2,500		700	Cr P S		R56 310 100	1,00
ADX	1296	• Polo	4	40 (55)								
AFK, AFH, AKK, ANM ANW, APE, AUA, AUB AUD, AQQ, AEX, AKV AXP, BCA, BBY, BBZ ANX, APQ, AHW, AKQ AHW, AXP, ARR, BAG	1390	• Polo, Lupo, Caddy, Bora Golf, New Beetle 1.4 16v	4	55-74 (75-100)								
AEA, AEE, AHS, ALM AJV, ARC, ATN, AUS AVY, AZD, BCB	1598	• Polo, Golf, Vento, Caddy Bora, Lupo 1.6	4	55-92 (75-125)								
BCA	1390	• Bora 1.4i 16v, Golf IV / V 1.4i New Beetle 1.4i 16v	4	55 (75)	76,510	1,200		500	NitB S	R56 450 000	STD	
						1,200		501	P		R56 450 050	0,50
						2,000		700	Nit S		R56 450 100	1,00
BMY, BLG, CAVD	1390	• Golf 1.4 TSI, Jetta 1.4 TSI Touran 1.4 FSI	4	103 (140)	76,510	1,200		500	NitB S	R56 200 000	STD	
						1,500		501	P		R56 200 050	0,50
						2,000		700	Nit S		R56 200 100	1,00
AFB, AKN, AKE, BAU BCZ, BFC, BDG, BDH	2496	• Passat 2.5 TDI	6	114-132 (155-179)	78,310	1,750		500	Cr P	R56 130 000	STD	
						2,000		501	P IFU		R56 130 050	0,50
						3,000		604	Cr P		R56 130 100	1,00
CLHA, CLHB CRKA, CRKB	1598	• Golf VII 1.6 TDI Golf VII 1.6 TDI 4motion Golf VII Variant 1.6 TDI	4	66-81 (90-110)	79,510	1,750		500	Cr P	R56 140 000	STD	
						2,000		501	P IF		R56 140 050	0,50
						2,000		604	Nit S			
EE, EF, EJ, FN, FR, FP WV, WY, WZ YG, YH YN, YP, YT	1588	• Jetta, Scirocco	4	44-62 (60-85)	79,510	1,750		500	CrB Fe S IF	R56 150 000	STD	
						2,000		508	P		R56 150 050	0,50
						4,000		700	Cr P S		R56 150 100	1,00
EN, ZV	1716	• Jetta, Scirocco, Golf, Rabbit Santana	4	57-59 (78-80)								
WN	1921	• Passat, Santana	5	84 (115)								
WE	2144	• Passat, Santana	5	85 (116)								










Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

VOLKSWAGEN

AMF, ATL, BAY	1422	• Lupo, Polo 1.4	3	55 (75)	79,510	1,750 2,000 3,000		500 501 604	CrB Fe S P IFU Cr P S	R56 160 000 R56 160 050 R56 160 100	STD 0,50 1,00
AKU	1716	• Lupo, Polo	4	44 (60)							
1X, 1Y, 1Z, AAZ, ABL AEY, AFN, AHF, AHH AHU, ALE, ALH, AQM AEF, AGD, AGP, AGR AGM, AJM, ANU ARL, ASV, ASX, ASY ASZ, ATD, ATJ, AUJ AVB, AVF, AWX, AVQ AXB, AXC, AXR, AYQ BJB, BKC, BLT, BRR BRS, BRU	1896	• Golf, Caddy, Bora, Sharan Passat, Polo, Touran, Multivan Transporter, New Beetle	4	44-110 (60-150)							
AJA	2370	• T4, California	5	55 (75)							
AEF, AGD, AGP, AGR AGM, AJM, ANU ARL, ASV, ASX, ASY ASZ, ATD, ATJ, AUJ AVB, AVF, AWX, AVQ AXB, AXC, AXR, AYQ BJB, BKC, BLT, BRR BRS, BRU	1896	• Golf, Caddy, Bora, Sharan Passat, Polo, Touran, Multivan Transporter, New Beetle	4	44-110 (60-150)	79,510	1,750 2,000 3,000		500 501 604	CrB Fe S Cr P IFU Cr P S	R56 330 000 R56 330 050 R56 330 100	STD 0,50 1,00
AJA	2370	• T4, California	5	55 (75)							
1600	1588	• Golf, Scirocco, Jetta, Passat Audi 80, Audi 100	4	55-81 (75-110)	79,510	1,750 2,000 5,000		500 508 700	CrB Fe S IF P Cr P S	R56 350 000 R56 350 050 R56 350 100	STD 0,50 1,00
AAC	1998	• T4	4	62 (84)	81,010	1,750 2,000 3,000		500 508 700	CrB Fe S IF P Cr P S	R56 170 000 R56 170 050 R56 170 100	STD 0,50 1,00
AAF, ACU	2459	• T4, T4 Syncro Caravelle	5	81 (110)							

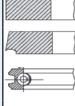
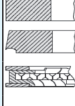
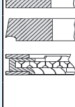
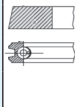
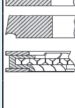
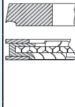
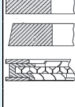
Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLKSWAGEN

AZV, BDJ, BDK, BKD BMM, BMN, BST	1969	• Golf, Caddy, Jetta, Touran Eos 2.0 TDI	4	51-125 (69-170)	81,010	1,750 2,000 3,000		500	CrB Fe S IF	R56 400 000 R56 400 050 R56 400 100	STD
								508	P		0,50
								604	Cr P		1,00
AAC	1998	• T4	4	62 (84)							
AAF, ACU	2459	• T4, T4 Syncro	5	81 (110)							
DT, EZ, EW, JU, PN RF, ABN, EZA	1595	• Golf, Jetta, Passat, Santana	4	51-55 (69-75)	81,010	1,500 1,750 3,000		500	CrB S IF	R56 180 000 R56 180 050 R56 180 100	STD
								508	P		0,50
								700	Cr P S		1,00
1P, 2H, DS, DX, DZ EV, GU, GX, GZ, HT HV, JH, JV, KR, KT PB, PF, PG, PL, RH RP, AAM, ABS, ADZ	1781	• Golf, Jetta, Passat, Santana Sharan, Vento, Scirocco	4	66-118 (90-160)							
AAC	1998	• T4, California	4	62 (84)							
JT, KM, KV, KX	2226	• Passat, Quantum	5	77-98 (105-133)							
AGZ, AQN, AZX	2324	• Golf, Passat, Bora, Sharan	5	110-125 (150-170)							
AAF, ACU, AET, AEU APL, AVT	2459	• T4, California	5	81-85 (110-115)							
AAA, AES, AMV, AMY AQP, AUE, AYL, BDE	2792	• Golf, Passat, Bora, Sharan California, Transporter	6	103-150 (140-204)							
DT, EZ, EW, JU, PN RF, ABN, EZA	1595	• Golf, Jetta, Passat, Santana	4	51-55 (69-75)	81,010	1,500 1,750 3,000		500	CrB S IF	R56 190 000 R56 190 050 R56 190 100	STD
								508	P		0,50
								604	Cr		1,00
1P, 2H, DS, DX, DZ EV, GU, GX, GZ, HT HV, JH, JV, KR, KT PB, PF, PG, PL, RH RP, AAM, ABS, ADZ	1781	• Golf, Jetta, Passat, Santana Sharan, Vento, Scirocco	4	66-118 (90-160)							
AAC	1998	• T4, California	4	62 (84)							
JT, KM, KV, KX	2226	• Passat, Quantum	5	77-98 (105-133)							
AGZ, AQN, AZX	2324	• Golf, Passat, Bora, Sharan	5	110-125 (150-170)							

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type		Set No.	Size

VOLKSWAGEN

AAA, AES, AMV, AMY AQP, AUE, AYL, BDE	2792	• Golf, Passat, Bora, Sharan California, Transporter	6	103-150 (140-204)	81,010	1,500 1,750 3,000		500 508 604	CrB S IF P Cr	R56 190 000 R56 190 050 R56 190 100	STD 0,50 1,00
ADP, AEH, AEK, AFT AHL, AKL, ARM	1595	• Golf, Passat, Bora, Polo Vento	4	74 (101)	81,010	1,200 1,500 2,000		500 508 700	NitB S IF P Nit S	R56 370 000 R56 370 050 R56 370 100	STD 0,50 1,00
AEB, AGU, ADR, AGN ARG, ARX, AUM, AUQ AWC, AWM, AWT	1781	• Golf, Passat, Sharan 1.8	4	92-132 (125-180)	81,010	1,500 1,750 2,000		500 508 700	CrB Fe S IF P Nit S	R56 380 000 R56 380 050 R56 380 100	STD 0,50 1,00
ACV, AGX, AHD, AHY AJT, ANJ, APA, AUF AVR, AXG, AXL, AYC AYY, BBE, BBF	2461	• T4, California, LT 28, LT 35	4	55-110 (75-151)	81,010	2,500 2,000 3,000		500 501 604	Cr P P Cr P	R56 410 000 R56 410 050 R56 410 100	STD 0,50 1,00
BAC, BLJ, BLK	2498	• Touareg, Transporter	5	120-128 (163-174)							
BLK	3198	• Phaeton	6	177 (241)							
AYH	4998	• Touareg	10	230 (313)							
AHL, ALZ, ANA, ARM AVU, AYD, BFQ, BFS BGU, BSE, BSF	1595	• Golf, Passat, Bora, Jetta Caddy, Touran, New Beetle 1.6	4	75 (102)	81,010	1,000 1,200 2,000		500 508 700	NitB S P Nit S	R56 440 000 R56 440 050 R56 440 100	STD 0,50 1,00
CDAB, CDAA	1798	• CC 1.8 TSI, Passat CC 1.8 TSI Passat Alltrack 1.8 TSI Sharan 1.8 TSI, Passat 1.8 TSI Passat Variant 1.8 TSI	4	118 (160)	82,510	1,200 1,200 2,000		500 508 700	NitB S IF P Nit S	R56 120 000 R56 120 050	STD 0,50
CCZA	1984	• Beetle 2.0 TSI, Jetta IV 2.0 TSI Beetle Cabriolet 2.0 TSI Golf VI Variant 2.0 TSI Passat CC 2.0 TSI Sharan 2.0 TSI	4	147 (200)							
3A	1984	• Audi 80, 90	4	85 (116)	82,510	1,500 1,500 2,000		500 501 700	Cr S IF P IF Cr P S	R56 210 000 R56 210 050 R56 210 100	STD 0,50 1,00

























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLKSWAGEN

ABF, ADY, AGG, AKR AEG, APK, AQY, ALT ATM, AZJ, AZM	1984	• Golf, Jetta, Vento, Bora Passat, Sharan, New Beetle	4	85-95 (115-129)	82,510	1,200		500	NitB S IF P Cr P S	R56 220 000 R56 220 050 R56 220 100	STD 0,50 1,00
						1,500		501			
						2,000		700			
AXX, BWA,	1998	• Golf, Jetta, Vento, Bora Passat, Eos	4	147 (200)							
ACK, ALG, AMX, APR AQD	2771	• Passat, Santana	6	142 (193)							
1900E	1847	• Audi 80	4	83 (113)	82,510	1,500		500	CrB Fe S IF P Cr P S	R56 230 000 R56 230 050 R56 230 100	STD 0,50 1,00
7A	2309	• Passat, Audi 80, 90, 100	5	98 (133)		1,750		508			
						3,000		700			
7A	2309	• Audi 90, 100, Coupe, Quattro	5	125 (170)	82,510	1,200		500	NitB S IF P Cr P S	R56 240 000 R56 240 050 R56 240 100	STD 0,50 1,00
					1,750		508				
					3,000		700				
ALT	1984	• Passat 2.0, Passat Variant 2.0	4	96 (130)	82,510	1,200		500	NitB S IF P Nit S	R56 260 000 R56 260 050	STD 0,50
CAWA, CAWB CCTA	1984	• Tiguan 2.0 TFSI	4	125 (170)		1,500		508			
CAWB, CCTA CBFA, CCTA CCTB	1984	• Scirocco 2.0 TSI, Eos 2.0 TFSI Passat CC 2.0 TSI Passat 2.0 FSI, Beetle 2.0 TSI Golf V 2.0 GTI, Jetta IVC 2.0 TSI Golf V Variant 2.0 Jetta III 2.0 TFSI	4	147 (200)		2,000		604			
CDLC, CDLF CDLG, CRZA	1984	• Golf VI 2.0 R 4motion	4	188-199 (256-270)							
CHHA, CHHB CNTA, CULA CULC	1984	• Golf VII 2.0 GTI Golf VII 2.0 TSI Scirocco 2.0 TSI	4	132-169 (180-230)	82,510	1,200		500	NitB S IF P Nit S	R56 390 000 R56 390 050	STD 0,50
						1,200		508			
						2,000		604			
CDA DOHC	1798	• Golf 1.8	4		82,510	1,000		500	CrB S P IFU Cr P S	R56 470 000 R56 470 050	STD 0,50
						1,200		501			
						1,500		700			

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	























VOLKSWAGEN

AZZ, AXJ, AYT, BDL BFH, BKJ, BFB, BHE BAA, BKK, BKL, BML BMV, BMX, BRK	3189	• Touareg, Phaeton, Multivan Beetle, Golf	6	162-177 (220-241)	84,000	1,200		500	NitB S IF	R56 250 000 R56 250 050 R56 250 100	STD
						1,500		501	P IF		0,50
						2,000		700	Cr P S		1,00
211	1584	• Transporter 1600, Micro Bus 181, 245, 247, 251, 253, 255 261, Clipper, 1200	4	32-37 (44-50)	85,510	1,750		501	P	R56 420 000 R56 420 050 R56 420 100	STD
						2,000		508	P		0,50
						5,000		604	P		1,00
311 AD, AS	1584	• 1200, 1300, 1303, 1500, 1600 T2	4	37 (50)	85,510	2,000		501	P	R56 430 000 R56 430 050 R56 430 100	STD
						2,000		508	P		0,50
						5,000		604	P		1,00
W	1679	• 411 E, 412 E	4	59 (80)	90,000	2,000		500	Cr P IF	R56 270 000 R56 270 050 R56 270 100	STD
						2,000		506	P		0,50
						5,000		604	P		1,00
AP, AT	1795	• T2 412, 914	4	50-55 (68-75)	93,000	2,000		500	Cr P	R56 280 000 R56 280 050 R56 280 100	STD
						2,000		508	P		0,50
						4,000		604	Cr P		1,00
AGK, ATA, AUH, BCQ	2799	• LT 28 D, LT 35 D, LT 46 D	4	92-116 (125-158)	93,000	2,500		504	Cr P IW	R56 460 000 R56 460 050	STD
						2,000		508	P		0,50
						3,000		604	Cr P		
DF, DG, DH, DW GD, GE, GJ	1915	• T2	4	44-66 (60-90)	94,000	1,750		501	P	R56 290 000 R56 290 050 R56 290 100	STD
						2,000		508	P		0,50
	1970	• T2	4	51 (70)	4,000		604	P	1,00		
DJ, MV, SS, SR BMM, BMN, BST	2109	• T2 Syncro, Caravelle	4	64-82 (87-112)	94,000	1,750		501	Cr P	R56 300 000 R56 300 050	STD
						2,000		508	P		0,50
						3,500		603	P		

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring						
			No	(HP)	Diam	Height	Type	Set No.	Size		
B 10E	1108	• 66 DL	4	33 (45)	70,000	1,750 2,000 3,500		500 501 700	Cr S IF P Cr P S	R57 060 000	STD
B 13E	1289	• 66 GL	4	42 (57)	73,000	1,750 2,000 4,000		500 508 700	Cr S P Cr P S	R57 150 000	STD
DLD	1560	• C 30, S 40, V 50 1.6D	4	80 (110)	75,000	3,000 1,950 2,500		505 508 604	Cr P P Cr P	R57 170 000 R57 170 060	STD 0,60
B 14 B 140E	1397	• 340, 343, 345	4	46-51 (63-70)	76,000	1,750 2,000 4,000		500 508 700	Cr S IF P Cr P S	R57 220 000	STD
D 24 D 24 TD D 24 TIC	2383	• 240, 244, 245, 740 760, 940, 945, 960 780, 960, 980	6	60-95 (82-129)	76,510	1,750 2,000 3,000		500 501 604	CrB Fe S P IFU Cr	R57 230 000 R57 230 050 R57 230 100	STD 0,50 1,00
D 16	1596	• 340, 360	4	40 (55)	78,000	2,000 2,000 3,000		500 501 604	Cr S P Cr	R57 240 000 R57 240 050 R57 240 100	STD 0,50 1,00
D 4192 T	1870	• S 40 1.9 TD	4	66 (90)	80,000	2,500 2,000 3,000		504 501 604	Cr P Cr P	R57 270 000	STD
D 4192 T	1870	• S 40 1.9 TD	4	66 (90)	80,000	2,500 2,000 3,000		500 501 604	Cr P IF P IFU Cr P	R57 280 000	STD
B 5234 FT	2319	• 850 T5, S 70	5	166 (225)	81,010	1,500 1,750 3,000		500 508 700	CrB S IF P Cr P S	R57 290 000	STD
B 172 K B 18 E, ED, EP B 18 F, FP B 18 KP, KPD F 3 N, F 3 N-230	1721	• 340, 360 440, 460, 480	4	60-80 (82-109)	81,010	1,750 2,000 3,000		500 508 700	CrB S IF P Cr P S	R57 380 000	STD




























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

VOLVO

D 5252 T	2461	• 850 TDI, S 70, V 70	5	103 (140)	81,010	2,500 2,000 3,000		500	Cr P	R57 390 000 R57 390 050 R57 390 100	STD
								501	P		0,50
								604	Cr P		1,00
B 18 U	1784	• 440, 460	4	66 (90)	82,700	1,500		500	CrB Fe S IF	R57 400 000 R57 400 050	STD
B 20 F F 7 R	1998	• 440, 460	4	81 (110)		1,750		501	P		0,50
						3,000		700	Cr P S		
B 5252	2435	• 440, 460, 480, 850, 960	4	105 (143)	83,000	1,500		500	CrB Fe S IF	R57 000 000 R57 000 040	STD
B 6304 F B 6304 G	2922	• 960, S 90, V 90	4	150 (204)		1,750		508	P		0,40
						3,000		700	Cr P S		
B 4204 T7	1999	• S60 II T5, S60 II T5 R-Design S80 II (AS) T5 V60 T5, V60 T5 R-Design V70 III (BW) T5 XC60 T5, XC60 Kombi T5 XC60 T5 Confort	4	176 (240)	87,500	1,200		500	CrB P S	R57 420 000 R57 420 050	STD
						1,200		501	P S		0,50
						2,000		700	Nit S		
B 4204 T7	1999	• S60 II 2.0 T5 DRIVe S60 II T5 V60 I T5, V70 III T5 XC60 T5 S80 II T5	4	176-180 (239-245)	87,500	1,200		500	CrB P S	R57 490 000 R57 490 050	STD
						1,500		501	P S		0,50
						2,000		700	Nit S		
B 200 ET, K, KE	1986	• 240, 360	4	75-118 (102-160)	88,910	1,750		500	Cr P	R57 210 000 R57 210 015 R57 210 030	STD
B 204 FT	1991	• 940, 960	4	140 (190)		1,750		508	P		0,15
						3,500		603	P		0,30
D 50 A, B TD 50 A, B	5100	• F 84, F 85, B 54, N 84	6	78-121 (107-165)	95,250	2,385		500	Cr P	R57 140 000	STD
						3,160		501	P		
						3,160		501	P		
						4,747		604	Cr P		


























Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLVO

B 23 A B 23 E, ET B 23 F, FT B 230 FT MB 23	2316	<ul style="list-style-type: none"> 240, 244, 245 740, 760 760 T, 760 (USA) 	4	77-127 (104-173)	96,000	1,750 2,000 4,000	  	500 508 604	Cr Fe S IF P P	R57 160 000	STD
D 60 TD 60 A, B TD 60 C, D, DG TAMD 60 C TD 61 A, ACE TD 61 F, G, GS TD 610 G TWD 610 G	5480	<ul style="list-style-type: none"> B 609 Tractor, F 607, F 609 F 610, F 611, F 612, F 613 F 614, F 616, F 617 FL 614, FL 616 B 6 F, 680, 846 	6	84-152 (115-207)	98,430	2,385 3,160 4,747	  	500 501 604	Cr IF P Cr P	R57 010 000	STD
D 6 A.230 Euro 2 D 6 A.250 Euro 2 TD 63	5480	<ul style="list-style-type: none"> FL 608, FL 611, FL 612, FL 613 FL 614, FL 618, FL 619, L 704 	6	132-154 (231-252)	98,430	3,500 2,500 3,500	  	504 501 604	Cr P IF P IFU Cr P	R57 350 000	STD
D 70 A D 70 B MD 70 B	6700	<ul style="list-style-type: none"> F 86, N 86 Marine 	6	106-110 (144-150)	104,775	2,385 3,160 3,160 4,747 4,747	    	500 501 501 604 600	Cr P P Cr P P	R57 020 000	STD
D 70 A D 70 B MD 70 B	6700	<ul style="list-style-type: none"> F 86, N 86 Marine 	6	106-110 (144-150)	104,775	2,385 3,160 3,160 4,747 4,747	    	500 501 501 604 600	Cr P Cr P P P P	R57 360 000	STD
TD 70 A, B, C TD 70 F, FS, G TMD 70 B	6700	<ul style="list-style-type: none"> F 7, N 7, F 86, N 86, FB 86 F 716T, F 720, F724 B 54, B57 	6	136-180 (185-245)	104,775	2,385 3,160 3,160 4,747	   	500 501 501 604	Cr P P Cr P	R57 030 000	STD
D 70 CHC, CRC MD 70 C TAMD 70 C TMD 70 C	6730	<ul style="list-style-type: none"> Marine 	6	102-147 (139-200)				604	Cr P		
TD 70 E, ES TD 70 H, HA TD 71 A TDF 71 F TD 71 FS, FSQ TD 73 G, E	6700	<ul style="list-style-type: none"> F 7, F 86, TF 86T, N 725, TN 7 TF 86 DTC, B 57 	6	155-180 (210-245)	104,775	2,385 3,160 4,747	  	500 501 604	Cr P P Cr P	R57 180 000	STD

















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

VOLVO

TD 73 E, ES	6700	• FS 7-34, FS 7-54, FS 7-38 FS 7-52, FL 7-38, FL 7-52	6	169-191 (230-260)	104,775	3,000 2,500 4,000	  	504 508 604	Cr P P Cr P	R57 190 000	STD
TAMD 71 TAMD 71 B	6724	• Marine	6	110-262 (150-357)							
D 7 A D 7 B	6700	• FL 7, FL 290, B 7 R	6	210 (285)	104,775	3,500 2,500 3,500	  	504 508 604	MoB N IF P IFU Cr P	R57 300 000	STD
TD 42 TD 45			4		105,575	2,385 3,160 3,160 4,747	   	500 501 508 604	Cr P IF P Cr P	R57 040 000	STD
D 1113	3780	• Tractor 218, 350, 614, 620	3	41 (56)	111,125	2,385 3,160 3,160	  	500 501 501	Cr P IW P P	R57 200 000	STD
D 1114	5040	• BM 470, BM 650	4	55 (75)		4,747 4,747	 	604 600	P P		
D 9 A Euro 3	9364	• FM 9, FM 9/260 /300 /340 /380	6	191-283 (265-385)	120,000	4,000 3,000 4,000	  	504 501 604	MoB N IW P IFU Nit S	R57 310 000	STD
D 100 A, B HD 100 A MD 100 B TD 100 A THD 100 A, D TMD 100 A THD 101 B	9600	• N 10, N88, F 88 LN 88, LF 88, NB 88, FB 88 B 10, B 58, B 59 300 CH, 400 CH	6	122-191 (166-260)	120,650	2,380 3,160 3,160 4,747	   	500 501 501 604	Cr IF P P Cr	R57 050 000	STD
TD 100 B, BG TD 100 F, G, GA THD 100 TD 101 F, FA, FD TD 101 G, GA THD 101 G, GC, GD THD 101 K, KB, KC THD 102, KA, KB, KF TMD 102 A, C THD 102 KE	9600 10414	• N 10, F 10, F 88, FB 88 B 10 M/R, B 10 M GAB C 10 M 400 CH • Marine	6 6	160-228 (218-310) 210 (286)	120,650	2,380 3,160 4,747	  	500 501 604	Cr IF Cr P IW Cr P	R57 070 000	STD



















Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

● VOLVO

TD 102 F, FD, FDQ TD 102 FF, FH TD 102 FL, FM TD 102 KD	9600	• N 10, F 10, FL 10 B 10 M	6	234-252 (318-343)	120,650	3,000 3,160 4,747	  	500 501 604	Cr P P IW Cr P	R57 080 000	STD
TD 103 KB, KF Euro 1 TD 103 E, EA, ES Euro 2	9600	• B 10 M F 10, NL 10, FL 10, FS 10	6	210-235 (285-320)	120,650	3,500 3,160 4,747	  	504 501 604	Cr P IF Cr P IW Cr P	R57 090 000	STD
D 120	12000	• F 88, F 89	6	176 (240)	130,180	2,385 3,160 3,160 4,747	   	500 501 501 604	Cr P P P Cr P	R57 100 000	STD
TD 120 A, C, D, E TD 120 F, FC, G, GA TAD 120 BHC TMD 120 A TAMD 120 A TD 121 F, G, GD TAD 121 CHC TMD 121 C TAMD 121 C, D TD 122 F, GA, GH TD 122 FH, FL TMD 122 A TMD 122 GB, KBE TAMD 122 A	12000	• N12, F12, F 89 CH 230 Industry Marine	6	217-310 (295-420)	130,180	2,385 3,160 4,747	  	500 501 604	Cr Cr P Cr P	R57 110 000	STD
TID 121 KB, KG, KP TID 121 LB, LG, LP	11979	• Industry	6	217-305 (295-415)	130,180	3,500 3,160 4,747	  	504 501 604	Cr P Cr IW Cr P	R57 120 000	STD

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring					
			No	(HP)	Diam	Height	Type	Set No.	Size	

VOLVO

TD 120 A, C, D, E TD 120 F, FC, G, GA TAD 120 BHC TMD 120 A TAMD 120 A TD 121 F, G, GD TAD 121 CHC TMD 121 C TAMD 121 C, D TD 122 F, GA, GH TD 122 FH, FL TMD 122 A TMD 122 GB, KBE TAMD 122 A	12000	<ul style="list-style-type: none"> N12, F12, F 89 CH 230 Industry Marine 	6	217-310 (295-420)	130,180	2,385 3,160 4,747	  	500 501 604	Cr P P IW Cr P	R57 320 000	STD
D 12 A Euro 2	12100	<ul style="list-style-type: none"> FH 12 	6	250-309 (340-420)	131,000	4,000 3,000 4,000	  	504 501 604	MoN IF P IWU Nit S	R57 330 000	STD
D 13	12800	<ul style="list-style-type: none"> VN, VHD 	6	275-368 (375-500)	131,000	3,500 2,500 3,000	  	504 501 604	Cr P IF Cr P IFU Nit S	R57 370 000	STD 0,50
TD 162 AG, FL TAMD 162 TXD 162 TD 163 AG, AP	16120	<ul style="list-style-type: none"> F 16 Marine 	6	217-405 (295-551)	144,000	4,000 3,500 5,000	  	504 501 604	Cr P IW Cr P Cr P	R57 250 000	STD
D 16 A	16100	<ul style="list-style-type: none"> FH 16 	6	346-382 (470-520)	144,000	4,500 3,500 5,000	  	504 501 604	Cr P IW P IF Cr P	R57 260 000	STD
TD 162 F, FL, FS TAMD 162	16120	<ul style="list-style-type: none"> F 16 	6	342-356 (465-485)	144,000	3,000 3,500 5,000	  	500 501 604	Cr P Cr P IW Cr P	R57 340 000	STD













Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● COMPRESSOR

LP 48		<ul style="list-style-type: none"> DAF 1160 WS Bosch 	1		75,000	2,000		508	P	R99 050 000 R99 050 050 R99 050 100	STD			
			2				2,000		508		P	0,50		
							4,000		605		P	1,00		
15 W 37, WB 15 WB 31, W 31 15.5 W 37		<ul style="list-style-type: none"> Westinghouse Scania 	2		75,000	2,385		501	P	R99 090 000 R99 090 050 R99 090 100	STD			
									2,385			508	P	0,50
									3,947			605	P	1,00
LP 4845		<ul style="list-style-type: none"> Knorr MIDR 0623.06 MIDR 0620.45 	2		78,000	2,500		508	P	R99 310 000 R99 310 050 R99 310 100	STD			
									2,500			508	P	0,50
									4,000			605	P	1,00
AC 67 A AC 75, AC 79		<ul style="list-style-type: none"> Marelli 	2		80,000	2,000		508	P	R99 110 000 R99 110 050 R99 110 100	STD			
									2,000			508	P	0,50
									4,000			605	P	1,00
2524		<ul style="list-style-type: none"> 2524 NHDD 	1		80,000	2,500		508	P	R99 220 000 R99 220 050 R99 220 100	STD			
									2,500			508	P	0,50
									4,000			605	P	1,00
ACX 82		<ul style="list-style-type: none"> Knorr Iveco Euro Trakker 370 Iveco Euro Trakker 420 	2		82,000	2,500		508	P	R99 320 000 R99 320 050 R99 320 100	STD			
									2,500			508	P	0,50
									4,000			605	P	1,00
825, 1160 OM 457, O 403		<ul style="list-style-type: none"> Westinghouse, DAF Westinghouse, Mercedes 	2		85,000	2,000		508	P	R99 370 000 R99 370 050 R99 370 100	STD			
									2,000			508	P	0,50
									4,000			605	P	1,00
Cursor 10-13		<ul style="list-style-type: none"> Knorr Iveco Euro Trakker 	1		86,000	2,000		501	P IF	R99 400 000 R99 400 050 R99 400 100	STD			
									2,000			508	P	0,50
									3,000			605	P	1,00
LK 3904 OM 366, D 08		<ul style="list-style-type: none"> Knorr Mercedes, MAN 	1		88,000	2,500		508	P IF	R99 380 000 R99 380 050 R99 380 100	STD			
									2,500			508	P	0,50
									4,000			605	P	1,00

Engine Type	CC	Vehicle Model Chassis Type	Cyl.	kW	Piston Ring				
			No	(HP)	Diam	Height	Type	Set No.	Size

● COMPRESSOR

D 2530, D 2538 D 2555, D 2556 D 2566		<ul style="list-style-type: none"> Westinghouse MAN 	1		90,000	2,500		508	P	R99 150 000	STD					
												508	P	R99 150 050	0,50	
												604	P	R99 150 100	1,00	
OM 401, OM 402 OM 403, OM 404 OM 407, OM 409		<ul style="list-style-type: none"> Westinghouse Mercedes 	1													
NHDD D 2066		<ul style="list-style-type: none"> NHDD 3230 Ford 	1		92,000	2,500		501	P IF	R99 350 000	STD					
									508			P	R99 350 050	0,50		
			<ul style="list-style-type: none"> MAN TGA Series 	1			4,000		605	P	R99 350 100	1,00				
OM 447 OM 501, OM 502 D 2840		<ul style="list-style-type: none"> Mercedes 	1		100,000	2,500		508	Cr P	R99 300 000	STD					
									508			P	R99 300 050	0,50		
			<ul style="list-style-type: none"> MAN 	1			3,000		605	P	R99 300 100	1,00				
D 2840 OM 501, OM 402		<ul style="list-style-type: none"> MAN 	1		100,000	2,500		508	P	R99 390 000	STD					
									508			P	R99 390 050	0,50		
			<ul style="list-style-type: none"> Mercedes 	1			4,000		605	P	R99 390 100	1,00				

3. NEW Hologram Sticker

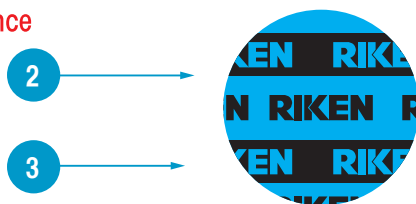
Location of the hologram stickers on the package

A) Only NEW hologram sticker is put on the package.

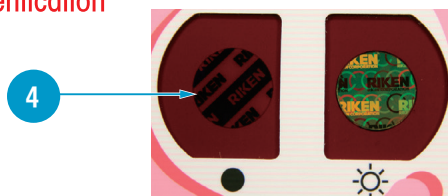


Features of NEW hologram sticker

Appearance



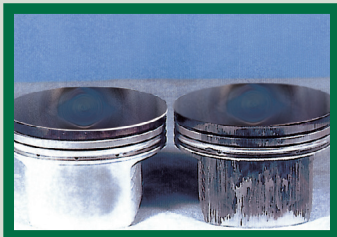
Viewer verification



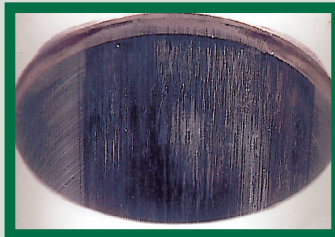
- 1 UPPER LEFT: NEW hologram Sticker
- 2 The Color of Package can be seen in transparent area.
- 3 Company logo "RIKEN" and stripes can be seen.
- 4 Only company logo "RIKEN" and stripes can be seen.

4. Examples of Piston Ring Trouble

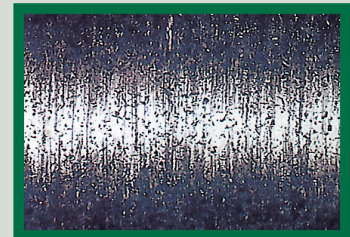
Deterioration of Lubrication Oil, Excess Heat, etc.



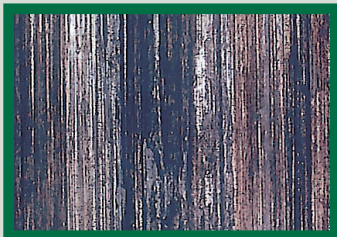
Piston and Piston Ring Scuffing



Scuffed Surface of Cylinder Liner



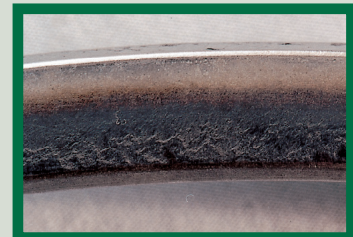
Typical Piston Ring Running Surface After Engine Operation



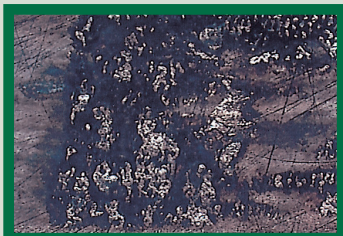
Scuffed Running Face of Piston Ring



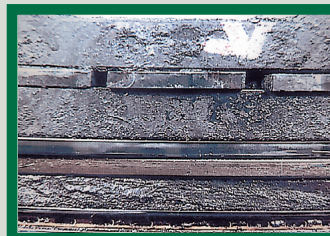
Piston Ring Sticking



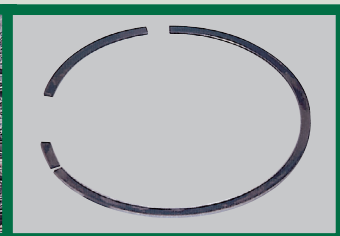
Accumulated Carbon Deposit on Piston Ring Side face



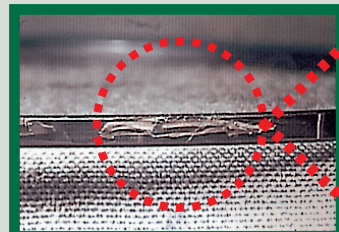
Aluminum Micro-Welding on Piston Ring Side Face



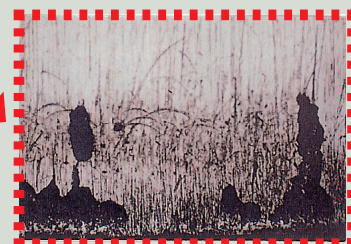
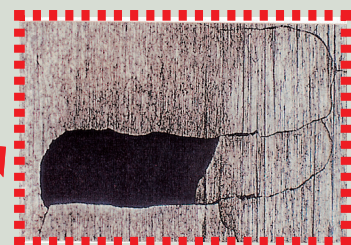
Piston Ring Breakage Caused by Excessive Piston Groove Wear



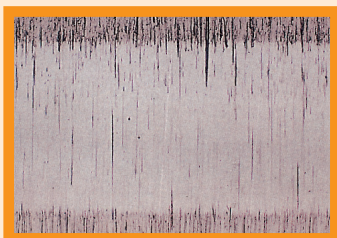
Piston Ring Breakage



Coating Flaking of Piston Ring Running Face



Foreign Particle Contamination



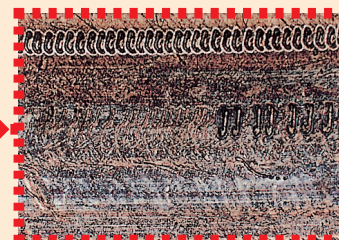
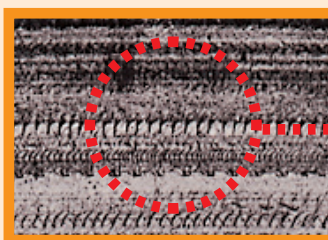
Typical Piston Ring Running Face After Engine Operation



Scratch Marks on Piston Ring Running Face Caused By Foreign Particles

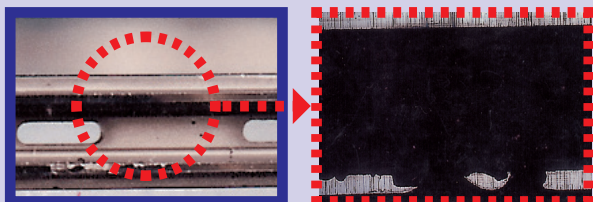


Foreign Particles Stuck on Piston Ring Running Surface



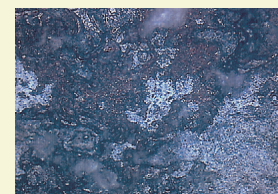
Chain Marks Due to Foreign Particles on Piston Ring Side Face

Improper Assembly



Oil Ring Rail Chipping Caused by Improper Assembly

Corrosion



Piston Ring Side Face Corrosion

5. Corporate Outline

Rational production systems give birth to high quality products

We have developed a comprehensive production system to provide products that fully respond to the needs of users.

At our three main production centers, the Kashiwazaki plant and the Tsurugi plant in Niigata and the Kumagaya plant in Saitama, very early on we installed production control systems and factory automation systems using automatic handling equipment, numerically controlled machines, automatic inspection equipment and computer systems. We use the latest machining equipment with specialized lines for each product group and we have achieved high quality, low cost and short production time through our highly rationalized production systems. The thorough total quality control (TQC) system utilizes our in company developed evaluation technology and our users place a high degree of confidence in our products. We take very thorough measures to ensure the preservation of the environment and maintain a harmonious relationship with local communities.

■ Kashiwazaki Plant

Address : 1-37 Hokutocho, Kashiwazaki, Niigata, 945-8555

Plant site area : 293,304m²

Products : Engine parts such as piston rings, other parts for automobiles, construction machinery, industrial equipment, hydraulic and pneumatic compressors and nuclear plants.

■ Tsurugi Plant

Address : 949-1 Aza Shimosakai, Oasa Tsurugi, Kashiwazaki, Niigata, 945-0105

Plant site area : 56,700m²

Products : Steel piston rings

■ Kumagaya Plant

Address : 4-14-1 Suehiro, Kumagaya, Saitama, 360-8522

Plant site area : 153,825m²

Products : Valve system parts, pipe fittings, industrial furnaces, electric heating wires, refractory products, waste incinerators, magnetic and electromagnetic wave shield materials, etc.



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