

# CHANGSHA HAOCHANG MACHINERY EQUIPMENT CO.,LTD

3#908 WANBOHUI ,NO.495 SHAOSHAN ROAD(M),CHANGSHA ,CHINA



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## Piston Ring Catalogue

MODEL	PART NO.	DIA. (mm)	CYL.NO	POSITION	HEIGHT (mm)	APPLICATION
<b>CATERPILLAR</b>						
D330 / D333	127 32 NO	114.3	4 6	1 2 O	3.16 2.38 5.55	D4C10,TRACTIR,PIPER,LAYER
4118		102	4 6	1 2 O	2 2 4	
3304	127 57 NO	120.65	4 6	1 2 O	3.16 3.16 5.55	LOADER,TRACTOR,SKI-DDER,GRADER
3306	FP-9880kk	120.65	4 6	1 2 O	3.16 3.16 5.55	LOADER,TRACTOR,SKI-DDER,GRADER
3307		120.65	4 6	1 2 O	3.16 3.16 5.55	LOADER,TRACTOR,SKI-DDER,GRADER
		137	6	1 2 O	3 3 3.13	
D339 / D342		146.05	4 6	1 2 O	3 3 3.18	D7,13A,14A,15A
<b>CUMMINS</b>						
6BT	3802230	102	6	1 2 O	3 2.35 4	Industrial
6CT	3802429	114	6	1 2 O	3.5 3 4	
6L		125	6	1 2 O	3.5 3 4	
LT10	FP-10512kx, 3803961	125	6	1 2 O	3 3 4.75	
M11	3803977	130	6	1 2 O	3 3 4	
NH220	AR12098, PC-6620-31-2020	130.18	6	1 2 3 O	3.7 3.7 3.7 6.08	

N14		139.7	6	1 2 O	3.8 2.8 4.75	
NH250,NT855	AR3801056	139.7	6 8	1 2 3 O	3.9 3 3 4.75	
VT903	FP-9823kk, AR11930	139.7	V8	1 2 O	3.9 3 4.75	
K19	3631248	139.7	6	1 2 O	3.75 3.75 4.75	

**DAEWOO**

F8B SSS80F8CV	12141-78B00	68.5	3	1 2 O	1.2 1.5 2.8	Tico Matiz
C14L V15L	NP960 0.25:NP1015 0.50:NP1016	76.5	4	1 2 O	1.5 1.5 3	Lanos Espero Nexia
D1146	FM5878	111	6	1 2 O	3.5 3 4	
D2306	FM15875	123	6	1 2 O	3.5 3 4	
DV15T	0B-115500-00	128	8	1 2 O	3.306 3.306 5	

**DAF**

F2100	08-182500-00 (GOETZE)	118	6	1 2 3 O	3.5 3 3 6	
F95	08-743400-00 (GOETZE)	130	6	1 2 O	4 3.16 4	

**DEUTZ**

F4L911	9-1529-00(SM)	100	4	1 2 O	3 2.5 5	Industrial
F6L912W	9-1526-00(SM)	100	6	1 2 O	2.5 2.5 5	D5506,D6006/A,D8006/A
912D	08-122100-00(GOETZE)	100	4	1 2 O	3 2 3	Tractor
BF4L 913 TURO	9-1519-00(SM)	102	4	1 2 O	2.94 3 3.5	Tractor
				1 2	3 3	

F1L 514,FL614	9-1526-00(SM)	110	6	3 0 0	3 6 6	Industrial
F6L413	9-1526-00(SM),101 59 V0	120	6	1 2 3 0	3 3 3 6	Industrial Tractor
<b>FIAT</b>						
LOMBAR DINI LDA 510	CD.6447(Cafaq)	85	4	1 2 3 0	2 2 2 4	Scudo Ulysse
8140.61 8142.61	DA.2885(Cafaq) 00798 V0	93	4	1 2 0	3 2 4	DUCATO ARGENTA
802/803/804/ 806	DA.2885(Cafaq) 00785 V0	95	4	1 2 0	2.5 2.5 5.5	ORSETTO BUS414
8045.02 8064.02	DA.2885(Cafaq) 00797 V0	100	4 6	1 2 0	2.5 2.5 5.5	40NC 100NC 110NC
8065.05 8065.25	DA.2885(Cafaq)	104	4 6	1 2 0	2.5 2.5 4	FL10E FR10B
8025.01	DA.2885(Cafaq)	120	6	1 2 0	3.5 3 5	AD12/BD12
8210.42	DA.2885(Cafaq) 00843 NO	137	6	1 2 0	4 3 5.5	190.36 240.36
8210.42	DC.2701(Cafaq)	137	6	1 2 3 0	4 3 3 5.5	MX300
<b>FORD</b>						
KOLN	8-780300-00(GOETZ)	90.8	4	1 2 0	136 2 4	
592E	42424220(PC) 42524220(PC) 0B-203500-10	100	6	1 2 3 0 0	2.39 2.39 2.38 4.76 4.76	Major Power Super
590E	40215 STD-010	100	6	1 2 3 0 0	2.39 2.39 2.38 4.76 4.76	D Series
F6600	40429660(PC)	111.76	4	1 2 3 0	3.17 2.38 2.38 4.75	
				1	2.39	

BSD442	0B-202400-10	111.77	4	2 3 O	2.39 2.39 4.75	
<b>HINO</b>						
3B/3BK	08-374000-00(GOETZE)	102	4	1 2 O	2.5 2.5 4.5	HV48
W04D	13011-1973, 13011-2540	104	4	1 2 O	2.5 2 5	FB112/FB114/FC111/ FC112/FC114/FT112
W06D	13011-1983	104	6	1 2 O	2.5 2 5	AC140/FC144/FC145 /FC146/FC148
HO6C	13011-1961	108	6	1 2 3 O	2.8 2.5 2.5 5	FD162/FD164/FD165 /FD166/FD168/RR19 2
EH700	13011-2070A, 13011-2090	110	6	1 2 3 O	3 2.5 2.5 5	BX/FD/FE/FF/KG/KR/ KL/LB/RJ/RC
H07C	13011-2672A	110	6	1 2 3 O	3 2.5 2.5 5	FD171/FD172/FE172/ FE173/FE174/FE175/ GD172/GD174
EB100	13011-2960A	115	6	1 2 O	3 2 4	KB100-KB380
DK10KV	13011-2370A	120	6	1 2 3 O	3.306 3 2.5 5	BG KA TC ZM
M10U	13011-2250A	127	6	1 2 3 O	3.306 3 3 5	Bus Blue ribbon HU
EF500,EG100	13011-1131	135	8	1 2 3 O	3.306 3.5 3.5 6	Trck/KB500D KS320 ZM102 RV530P 550P Tractor/WG300 HF350
EF550	13011-2700,13011-2010A	135	8	1 2 3 O	3.306 3.5 3.5 5	Truck FS,FR,FN,SH
K13C	13011-3090A	135	6	1 2 3 O	3.306 3.5 3.5 5	Truck Ranger Super Dolphine PROFIA
EK100,EK200,EK130-T	13011-1011	137	6	1 2 3 O	3.306 3.5 3.5 6	Truck TC303D KF301D ZM103D KB501D KS321

EF750	13011-1121	137	8	1 2 3 0	3.306 3.5 3.5 6	Tractor HE HH TC
F17C,F17E	13011-2810A, 13011-3150A	139	8	1 2 3 0	3.306 3.5 3.5 5	FS. FR. RU.FN. FW. SH
<b>HYUNDAI</b>						
ESPILON1.1	RIK-40527 FM8943	66	4	1 2 0	1.2 1.2 2.5	Atos
EXCEL1.3	FM 5333	71	4	1 2 0	1.5 1.5 3.9	PONY
ACCENT1.3	FM8636	71.5	4	1 2 0	1.5 1.5 3.9	Accent EXCEL Pony
ACCENT1.5	RIK-40765 FM8637	75.5	4	1 2 0	1.5 1.5 3	ANCCENT
EXCEL1.5	RIK-40163 FM9703	75.5	4	1 2 0	1.5 1.5 4	EXCEL
Lantra1.6L	FM9310	77.4	4	1 2 0	1.2 1.2 2.4	Lantra
Y2-1.8	FM9370	80.6	4	1 2 0	1.5 1.5 3.9	Sonta
SONATA 1.8	FM9457	81.5	4	1 2 0	1.2 1.5 3.9	Lantra
SONATA 2.0L		82	4	1 2 0	1.2 1.2 2.4	
ELANTRA 4G61	FM19460	82.3	4	1 2 0	1.2 1.5 2.95	ELANTRA
HYUNDAI		86.7	4	1 2 0	1.2 1.2 2.4	
H1 H100	RIK-40523 FM Eng.No 25062	91.1	4	1 2 0	2 2 3	D4BA/X/H
HYUNDAI D4AE	FM 5760	100	4	1 2 0	3 2 4	Mighty Truck
HYUNDAI D4AF		104	4	1 2 0	3 2 4	
<b>ISUZU</b>						
	08-247000-			1	2	Florian1600

G161AB	00(GOETZE) RIK-17580	82	4	2 0	2 4	Elf,Foster PA20V,KA41V 51V
4FC1-T	FM3937	84	4	1 2 0	2.5 2 4	Aska Fargo
4FB1	08-245400-00(GOETZE)RIK-17650	84	4	1 2 0	2.5 2 4	Gemini Diesel PFP60 Fargo WFR51
C190	8-94104-949-0(GOETZE)	86	4	1 2 3 0	2 2 2 5	Elf / 150 KBD25/KBD26/KBD40/KBD41
C240	5-12121-021-0	86	4	1 2 3 0	2 2 2 5	ELF 250 For Cromed Liner
C223	8-94253-736-0(GOETZE) RIK-17380	88	4	1 2 0	2 2 4	117 2200 Hipac Van For Cromed Liner
4ZD1	08-244300-00(GOETZE) RIK-17670	89	4	1 2 0	1.5 1.5 4	KGB29.44.49 TFR 16 TFS16
4JA-1/4JB-1	08-248000-00(GOETZE)	93	4	1 2 0	2 2 4	Truck Bighorn Elf 150 250
4BA1	5-12181-025-0	98	4	1 2 0	3 2.5 5	Elf TLD34 44.54 TLD26.64
4BB1/ 4BD1 /4BC1	5-12181-024-1 5-12121-004-0	102	4	1 2 0	3 2.5 5	Elf Journey
6BB1 / 6BD1	5-12181-023-2	102	6	1 2 0	3 2.5 5	Truck SBR320.380 JBR FBR370 VBR320 VBR322
4BE1 / 6BF1	8-94418-918-0(GOETZE) 5-12121-006-0	105	4 6	1 2 0	3 2.5 5	Elf 2T/Forward
6BG1 / 4BG1	1-12121-065-0 8-97123-833-0 (GOETZE)	105	4 6	1 2 0	3 2.5 4	Forward (FRS12) Elf
4HF1T		110	4	1 2 0	3 2 3	
4HE1TC		110	4	1 2 3 0	3 2 1.2 3	
<b>IVECO</b>						
	730 2093 EZ 730 2094 E7			1	3	

8140.07	730 2094 EZ 730 2095 EZ 730 2096 EZ 730 2097 EZ	93	4	2 0	2 3	Daily
8140.61 200- .300	9-2002-00(SM)	93	4	1 2 0	3 2 3	Combi Daily Daily Cina Grinta
8140.43M.43 00-4330	R49690 (GOETZE)	94.4	4	1 2 0	2.5 5 2.5	35C15 35S15 50C15 60C15 65C13 65C15
		98	4	1 2 0	2.5 5 2.5	
100F	08-782000-00 (GOETZE)	103	6	1 2 0	2.5 2.5 3	
880	08-247800-00 (GOETZE)	104	4	1 2 0	2.5 2.5 4	
190.32	08-785300-00 (GOETZE)	120	6	1 2 0	3.5 3 5	
Diselmotor 8210.02 8210.22	R46840(AE)	137	6	1 2 3 0	4 3 3 2.5	
Diselmotor 8210.42	R47220(AE)	137	6	1 2 0	4 3 5.5	240. 36 Astra
<b>KIA</b>						
JADE	KK1Y-11-SCO	68	4	1 2 0	1.2 1.5 3	Towner Pride
B3	RIK-40728	71	4	1 2 0	1.2 1.5 3	Pride
RIO1.3		75	4	1 2 0	1.2 1.5 3	
RIO1.5		75	4	1 2 0	1.2 1.2 2.5	
KV20	FM Eng No. 19363	78	4	1 2 0	1.5 1.5 4	Sephia Avella
CONCORD2. 0	08-282700-10 (GOETZE)	86	4	1 2 0	1.5 1.5 4	Credos potentia rocsta
BESTAR2 OKTY011SC R	08-283600-00 (GOETZE)	86	4	1 2 0	2 2 4	
				1	1.84	

BESTA2.2-2	RIK-41247	86	4	2 O	2 3	NEW BESTA
SF2400	K7Z0-11-SCO	92	4	1 2 O	2.4 2.4 4	Bongo Ceres
SS SUTCK2700	RIK-41265	92	4	1 2 O	2.85 2.4 4	Besta
ZB	OK8Y1-11-SCO	92.03	6	1 2 O	2.383 2.383 4.763	4100EF 4100WE17T 4100WELLD 4100WX011
ZB K4100	OK8Y1-11-SCO	92.03	6	1 2 O	2.383 2.383 4.763	
RFA	RIK-40513	93	4	1 2 O	2 2 3	HI BESTA
K2700 PREG10	RIK-40025	9594.5	4	1 2 O	2 2 3	K2700 PREG10
HA	K6Z1-11-SCO	95	4	1 2 O	2 2 3	Industrial
J3TCI	K5Z1-11-SCO	97.1	4	1 2 O	2 2 3	Carinval
K3000	K7Z1-11-SCO	98	4	1 2 O	2 2 3	K3600
SL	K4YO-11-SCO	100	4	1 2 O	2.5 2 4.5	E-3500 P-WEL4AF P-WEL4AT P-WEL4AC P-WEL4AT
SH3	OK4Y-11-SCO	100	4	1 2 O	2.5 2 4.5	K3500
SH	K4Y1-11-SCO	100	4	1 2 O	2 2 3	K3600
<b>KOMATSU</b>						
S4D95L	6202-32-2200/cyl.	95	4	1 2 O	1.5 2 4	GD461A-1,GD511 R- 1,GD513A R- 1,PC120L-5,WA180- 1
S6D95L	6207-31-2200/cyl.	95	6	1 2 O	2.5 2 4	GD461A-1,GD511 R- 1,GD513A R- 1,PC120L-5,WA150- 1
6D95	6204-31-2202	95	6	1 2	2 2	Industrial



				O	4	
S6D95-6		95	6	1 2 O	2 2 4	
6D102	6732-31-2300	102	6	1 2 O	3 2 4	Bulldozer
4D105-1	6137-31-2040	105	4	1 2 O	3 2.5 4	Wheel/Drive D30/D31/EG45/EG75 /GD200A- 1/JH63/PC200
6D105	6136-31-2030, 6136-31-2010	105	6	1 2 O	3 2.5 5	EG75,GD200A- 1,GD300A- 1,PC200,PC220,Q- 3D41A
6D108	6221-31-2200	108	6	1 2 O	2.5 2.53 4	
S6D110	6138-32-2200	110	6	1 2 O	3 2.5 5	Bulldozer
6D125	6150-31-2030/cyl.	125		1 2 O	2.4 2.4 4	D65S-8,GD613A- 1,GD663A- 1,HA250/HA270
4D130	114-30-2403/cyl	130	4	1 2 O	3.5 2.5 5.5	Bulldozer
D57S-1	6620-31- 2020,6620-31- 2030/cyl	130.18	6	1 2 O	3.78 3.61 3.61	Bulldozer
6D140	6211-31- 2031,6211-31- 2032/cyl.	140	6	1 2 O	2.4 2.4 4	Bulldozer
6D155-4	6125-31- 2022,6128-31-2023	155	6	1 2 O O	4 3.5 6 5	Bulldozer
S6D155/SA6 D155	6125-31- 2030,6128-31-2060	155	6	1 2 O	3.68 3.548 4.737	A-2 D150 D155 D155C D355A-5 D355C-EG300
<b>LADA</b>						
B03 BA37-2102	08-269700-00 (GOETZE)	76	4	1 2 O	1.5 2 3.95	150 / 2103 2104 / 2105 2107 / 21026 Niva / Nova
B221081 BA321081	210011-1000/00 08-268700-00 (GOETZE)	76	4	1 2 O	1.5 2 3.95	Samara VAZ
BC30-2104	210011-1000/00			1	1.5	2105

2105 2106	08-267200-00 (GOETZE)	79	4	2 0	2 3.95	21056 Riva
BA33 BA37 BA38 BA43 BA47	08-269800-00 (GOETZE)	79	4	1 2 0	1.5 2 3.95	2105 / 1600 Niva / Nova Shiguli / Vaz
B221083 VA2-2111	08-269900-00 (GOETZE)	82	4	1 2 0	1.5 2 3.95	SAMARA
<b>MAN</b>						
6.90/8.90	227 52 N0(MAHLE) 800015410000 (KS) 06-280000-10 (GOETZE)	102	4	1 2 0	2.5 2.5 4	6.90/8.90
D0824GF GF01	22752N0(MAHLE) 80 00154 1 0000 (KS) 06-280000-10 (GOETZE)	108	4	1 2 0	2.5 2.5 4	6.100/8.100
D2146 D2156	228 40 V0 (MAHLE) 80 00148 1 0000 (KS) 06-274800-10 (GOETZE)	121	6	1 2 3 0	3 2 1.2 3	10.215 12.192 13.215 14.215 14.215 15.192
D2356 D2366	80 00149 1 0000 (KS) 06-282100-10 (GOETZE)	123	6	1 2 0	3.5 3 4	10.230FL 13.320 16.230 19.230 22.230
D2556M MX MXF MXH	228 82 NO (MAHLE) 80 00154 1 0000 (KS)	125	6	1 2 0	3.5 3 5	15.24 22.24 SD200 SD220 SG192 SL200
D2556MXUH MXUM	228 05 NO (MAHLE) 80 00151 1 0000 (KS) 06-874400-20 (GOETZE)	125	6	1 2 0	3 3 5	Industrial
D2840LF LXF LXF / LYE	228 90 NO (MAHLE) 80 001551 0000 (KS)	128	10	1 2 0	3.5 3 5	24.462 26.462 33.462 40.462
<b>MAZDA</b>						
B1		68	4	1 2 0	2 2 3.8	323
				1	1.5	Capella

NA	FP-E-350X FM1103	78	4	2 O	2 4	Capena titan savanna
VB	62726 V0 FP-E-350KC FM1106	78	4	1 2 O	1.5 1.5 4	Luce B Series Titan
R2	08-283600-00 (GOETZE) 627 34 V0	78	4	1 2 O	2 2 4	Bongo E Series
SL	08-111900-00 (GOETZE)	100	4	1 2 O	2.5 2 4.5	Trader Titan
<b>mitsubishi</b>						
4G32	828540000 (GOETZE), FM11199	76.9	4	1 2 O	2 2 2.7	Lancer Colt Sigma
4G63	MD040640 MD041580 MD108068	85	4	1 2 O	2 2 4	Canter E-po3v
4G64/4G64- S4	MD192815 MD194597 MD195828	86.5	4	1 2 O	1.2 1.5 2.8	Galant / L200 /L300 / Montero/Pajero/Sapporo/Space / Wagon
4G54 4G54B	MD026960 MD025089 MD107813	91.1	4	1 2 O	2 2 4	Jeep, Galant Σ,Sapporo, Dodge, Challenger
4D55	MD050395	91.1	4	1 2 O	2.5 2 4	Galant A167 /Galant Sapporo/ L300/Delica
4D55T/4D56	MD050390	91.1	4	1 2 O	2.5 2 4	Galant / A167/L300 / L038P
4DR5 6DR5	3171712012 3161702012	92	4 6	1 2 O	2.5 2 2 4.5	Rosa / T44/T44B / Fork Lift / FD60
4D30	ME012070 ME012010	100	4	1 2 O	3 2 5	Truck FE111-121-211 Bus/be211 Rosa
6D31/6D31T	ME999717	100	6	1 2 O	3 2 5	Truck FK330
4D31T/6D31 T	ME997398 L902	100	4	1 2	3 2	Truck FE434 Canter Truck FK330, FE434

	ME999783			O	4	Truck FK350 ,FE434
S6KT		102	6	1 2 O	3 2 4	
4D32	ME997318	104	4	1 2 O	3 2 4	Canter
4D34T	ME997240	104	4	1 2 O	2.806 2 4	Bus/Canter/ Truck
4D33	ME996378	108	4	1 2 O	3 2 4	Canter
6D14	ME032260 ME032071 ME032404 ME032458	110	6	1 2 O	3 2.5 5	Truck FK115/115H/115J/FK 115K/115DK/T656ZR /FM215
6D15	ME032403	113	6	1 2 O	3 2.5 5	Bus/Truck
6D16	ME999540	118	6	1 2 O	3 2.5 4	FUSO/FK417/FK517
6D16T	ME999549	118	6	1 2 O	2.806 2.5 4	Industrial
6D22/6D22T	ME052124 ME052787 3091720010	130	6	1 2 O	3.306 3 6	Truck / FFT318/FP318 / Bus MP118 / MP518
6D22A	ME995467	130	6	1 2 O	3.306 3 4	Bus / Crane Truck / Tank truck / Tractor Cement/Tanker
8DC91/8DC9 T	ME0062230 ME062018	135	V8	1 2 3 O	3.306 3 3 6	Truck FU 11.5 ton/ FV 10.75ton/FT EW /Bus MS
8DC91	ME090758	135	V8	1 2 3 O	3.306 3 3 4	Bus/Crane Truck/Tank truck/Tractor
<b>Mercede Benz</b>						
OM616	M270440(PC) 002 49 G1	91	5	1 2 O	3 2 4	240D / 300D / 300GD / 300TD
M116.960- 963	06-173807- 20(GOETZE)	92	4	1 2 O	1.75 5 3.5	380
M119A	M002360(PC)	92	8	1 2 O	1.2 2 3.5	E420/M420

M102E23	002 77NO(MAHLE) 800018940000 (KS)	95.5	4	1 2 O	1.5 1.7 3.5	190E
M113.960	000 45NO(MAHLE) 800010910 000(KS) 004 51 NO	97	8	1 2 O	3 3 5.5	CLK55 / E55 / G55 / ML55 Puch / S55
OM314	022 50 V0(MAHLE) 800019111000 (KS)	97	6	1 2 O	2.5 2.5 4	
OM352	08-174300- 10(GOETZE)	97	6	1 2 3 4 O	3 3 3 5.5 5.5	
OM366	002 98 NO	97.5	6	1 2 O	2.5 2.5 4	
OM360	800011010000 (KS) 06-176400- 20(GOETZE) 005 11NO(MAHLE)	115	6	1 2 O	3.5 3 5.5	1113/1216/1313/1317 /1413/1417/1617/181 7
OM401 LA	06-176800- 70(GOETZE) 06-176000- 30(GOETZE) 800019411000 (KS)	125	6	1 2 O	3 3 6	0303 / 1019/1219 / 1419/1619 / 1719 /1819 / 1919
OM402A	00345V0 (MAHLE) 8000193110000 (KS) 06-176800-80 (GOETZE)	125	6	1 2 O	3 3 6	1424/1624/1626/1924 /1926/2026/2224/222 6
OM422	003 66 VO(MAHLE) 80 00195 11000(KS) 06-181700-20 (GOETZE)	128	8	1 2 O	3 3 4	1225/1228/1425/1428 /1429/1625/1628/192 5/2028/2225/2228/24 25
OM346	08-124500- 00(GOETZE)	128	6	1 2 3 O	3.5 3.5 3.5 6.5	0317/1418/1618/1620 /1623/1918/1920/202 0/2023/2220
OM355A	08-179300-10 (GOETZE)	128	6	1 2 3 O	3.5 3.5 3.5 6.5	1928/2628
				1	3	.....

OM423	003 76 N0(MAHLE)	128	10	2 O	3 4	1636/ 1936/ 2036/ 2236/2626 /3236
OM355/OM34 6 Truck	003 54 VO(MAHLE) 003 54V2 (MAHLE) 800019611000 (KS) 08-176900-10 (GOETZE)	128	6	1 2 3 O	3.5 3.5 3.5 6.5	1620/1624/1920/1924 /2220/2224
OM444	003 78NO(MAHLE) 80 0019710000 (KS) 06-742300-00 (GOETZE)	130	12	1 2 O	3 3 4	Industrial
<b>NISSAN</b>						
A12/A10	08-291400-00 (GOETZE) RIK-23431	73	4	1 2 O	2 2 4	Bluebird Truck 520 Buska321 Bluebird 1200
J15/J16	RIK-23210	77.95	4	1 2 O	2 2 4	bus sve20 Truck T20 bus ve20
CA16	RIK-23180	77.95	4	1 2 O	1.5 1.5 4	Atanza Auster
CD17	08-294800- 00(GOETZE) FM32169	80	4	1 2 O	1.5 2 3	Sunny van Cherry Sentra
Z20	FP-E-455KC FM23759	85	4	1 2 O	1.5 1.5 4	Cabstar
P40	FM1274	85.69	4	1 2 O	2.5 2.5 4.6	Cabstar Bus Carrier Truck
H20	12033-14601 12033-Y4460 12033-R9023 (FP-E-577X)	87.2	4	1 2 O	2 2.5 4	200C / Caball /Cabstar/ Cedric/Civilian/ Clipper /Fork / Lift
Z24	FP-E-455KC FM23759	89	4	1 2 O	1.5 1.5 4	Cabstar/Junior/Urvan Bus
TD25	RIK-23920	92.9	4	1 2 O	2.5 2 4	Cabstar Cabstar Pick Up/ Norfolk Pick Up
TD27	RIK-23892	96	4	1 2 O	2.5 2 4	Bus King Cab Pathfinder Pick- Up/Taxi Terrano/ Van

FD6	12040-Z5028	100	6	1 2 0	3 2 4.5	Cargo / Truck/Concrete Dump / Truck/Tank / Truck
FE6	12040-Z5505	108	6	1 2 0	3 2 4	Condor Condor Truck Crane Truck
ND6	12040-90127 12040-95006 12040-95004/lcy1	110	6	1 2 0	4 3 5	Cargo / Truck
NE6	12040-95012 12040-95013 12040-95029	110	6	1 2 0	3 2.5 5	Bus / Truck
PD6	12040-90029 12040-96007 12040-96009 12010-90125	125	6	1 2 0	5 3.5 5	CB20 / CK20 /TK20 / U20/TFA21 / CD40/CV40 / CW40
PD6T	12040-90228 12040-96129 12000-96005/lcy1	125	6	1 2 0	5 3.5 5	Cargo / Truck Dump / Truck Tractor
PE6	12040-90228 12040-96129 12000-96005/lcy1	133	6	1 2 0	4 3.5 6	Cargo / Truck Dump / Truck Tractor
PE6T	12040-96225 12040-96512 12040-96228 12040-96510/lcy1	133	6	1 2 0	4 3.5 6	CD45
RD8	12040-97126 12040-90325 12040-97008 12040-97007/lcy1	135	V8	1 2 0	4 3 6	Bus / CD52 /CW50 / CW51 /CW52 / RA50 /RA51
RE8	12040-97074	135	8	1 2 0	3 3 5	Bus Truck
<b>PERKINS</b>						
D4.203 6.305	043 21 VO (MAHLE) 41158058 (PERKINS)	91.49	4 6	1 2 3 0 0	2.39 2.39 3.18 6.35 6.35	Industrial
4.165	68501 (PERKINS)	92	4	1 2	2 2.5	Industrial

	(PERKINS)			O	4	
A4.236 AT4.236 6.354 H6.354 T6.354.1	043 48 NO (MAHLE) 41158041 (PERKINS)	98	4 6	1 2 3 O O	2.39 2.39 2.39 6.35 6.35	Industrial
	08-325600-00 (GOETZE)	100	6	1 2 O	2.5 2.5 4	Industrial
	08-101700-00 (GOETZE)	100	6	1 2 O	2.5 2.5 4	Industrial
4.248	043 30 NO (MAHLE)	101.05	4	1 2 3 O	2.39 2.39 2.39 6.35	Industrial
<b>PEUGEOT</b>						
XL3	021 78 V0 (MAHLE) 40 42625(PC)	76	4	1 2 O	1.75 2 4	304
XK5	039 69 NO (MAHLE) 40 42625(PC)	78	4	1 2 O	1.75 2 4	204/304/305
XUD7-161A- 19A	011 54 NO (MAHLE) 40 43218(PC) 80 00224 4 0000 (KS)	80	4	1 2 O	2 2 3	205 / 305 / 309 Partner
XU7 JP4	039 24 NO (MAHLE) 80 00037 4 0000 (KS) 40 43186(PC)	83	4	1 2 O	1.5 1.5 3	306 / 406
KF5/6 XM/1 XM6/ XM7 XM7/P	039 29 VO (MAHLE)	84	4	1 2 O	2 2 4.5	504
EW12J4	M320520(PC)	86	4	1 2 O	2 2 4	406 / 607
829/J6R/ZEJ	039 53 VO (MAHLE) 80 00038 4 1 000 (KS) 40 42742(PC)	88	4	1 2 O	1.75 2 4	505
XN1/XN1P XNA/XN1T	40 42028(PC) M266080	88	4	1 2 O	1.5 2 4	504/505 B31/ J5/J9
XDP 4- 90/XDP90	40 390940(PC)	90	4	1 2 3 O	2 2 2 4	504 / J5 / J9
504,505D w/o Turbo	40 430300(PC)	94	4	1 2 O	2 2 4	504 / 505 J7 / J9
<b>TOYOTA</b>						



1RZ	13011-75010 13011-75020	86	4	1 2 O	1.75 1.5 4	Hi-Lux Hiace
2C(Diesel)	RIK-28275	86	4	1 2 O	2 2 4	Corona Carina Corolla Master Ace
4Y	RIK-28008	91	4	1 2 O	1.5 1.5 4	4 Runner Dyna Forklift Hiace Hilux Model F Stout
2L-T 2L-TE(Diesel)	RIK-28740	92	4	1 2 O	2 2 4	Crown Chaser Corona Mark II
2L	FM3833	92	4	1 2 O	2 2 4	Chaster Crown Corona
2RZ	13011-75030	95	4	1 2 O	2 2 4	Hi-Ace RZH101G
BU30	FM1916	95	4	1 2 O	2.5 2.5 4.5	Coaster Landcruiser Toyoace
BU65		95	4	1 2 O	2.5 2.5 4.5	
3L	RIK-28006	96	4	1 2 O	2 2 4	Toyo-Ace Hilux Hiace Van Wagon Dyna
HILUX 2.8-96	FM9631	96	4	1 2 O	1.84 2 4	Hilux
2B(Diesel)	RIK-28180	98	4	1 2 O	2.526 2.526 4.5	Coaster Dyna Landcruiser
5L	RIK-28553	99.5	4	1 2 O	2 1.5 4	HI-ACE REGIUS HI-LUX
2E-C/ U / L	13011-11040	73	4	1 2 O	1.5 1.5 3	Corona Corolla Hiace Sprinter Starlet
1N	E-610KC FM9964	74	4	1 2 O	1.5 1.5 3	Starlet
5A-F	13011-15130	78.7	4	1 2 O	1.2 1.5 3	Corona Corolla

12R	13011-31091 13011-31070 13011-31061 13011-31060	80.5	4	1 2 O	2 2 4	Corona +A1100 Hilux Hiace Corona-Van
5K/KU	13011-13040 13050 13090	80.5	4	1 2 O	1.5 1.5 4	Corolla Liteace
4A-F	RIK-28256	81	4	1 2 O	1.2 1.5 3	Corolla AT190 AE101
1C	08-374300- 00(Goetze) RIK-28755	83	4	1 2 O	2 2 3	Carina Corolla Corona
6R/7R/8R	13011-33030,- 33022, -33021,- 33020, -33010	86	4	1 2 O	2 2.5 4	Corona Corona-Mark II Cressida
1Y/2Y/3Y	13011-71010,- 71020,-71030 ,- 71033, -71040	86	4	1 2 O	1.5 1.5 4	Dyna Townace Liteace
<b>VOLKSWAGEN</b>						
1G	029 80 NO(MAHLE) 80 00006 1 1 000(KS) 40 43065(PC)	76.5	4	1 2 O	1.75 2 3	LT40 LT45
AEX	029 80 NO (MAHLE) 800000611 000(KS) 40 43065(PC)	76.5	4	1 2 O	1.2 1.5 2.5	Caddy Golf Polo Vento
DE 1.9L		79.5	4	1 2 O	1.75 2 3	
FN	08399200-00 (GOETZE)	81	4	1 2 O	1.75 2 5	Jetta Golf Passat
AAM	08-109700-00 (GOETZE)	81	4	1 2 O	1.5 1.75 3	Golf Passat Vento
DS	08-109400-10 (GOETZE)	81	4	1 2 O	1.5 1.75 2	Santana
APT	R48000	81	4	1 2 O	1.5 1.75 3	PASSAT B4
ANB		81	4	1 2 O	1.5 1.75 2	PASSAT B5
<b>VOLVO</b>						
	275308			1 2	2.39 3.16	B3157T

TD67C	08-392000-00 (GOETZE)	104.78	6	3 O O	3.16 4.75 4.75	B615 L385 L485 L4950
TD100B TD101 TD102 THD102	271117 08-501400-00 (GOETZE)	120.65	6	1 2 O	2.39 3.16 4.75	F88 FL88 LM1254LM1640 LM1641 Parca654
TAD120 TAMD120 TD120 TA122	275321 08-405600-00 (GOETZE)	130.18	6	1 2 O	2.38 3.18 4.76	N12 CH230 TMarinemotor F89/F12/ N12
D12AEURO 2	08-123200-00 (GOETZE)	131	6	1 2 O	4 3 4	FH12
F16	08-500300-00 (GOETZE)	144	6	1 2 O	2.385 3.16 4.74	F16
TAMD 162C TD163	08-502500-00 (GOETZE)	144	6	1 2 O	2.96 3.46 5	Eminbamotor marinemotor F16