

**Equipment information**

**Equipment:** 00007991380  
**Type:** F12L 413F  
**Output:** 0000176,0 kW  
**Speed:** 1500 1/min  
**Build date:** 01.10.1990  
**KLU-Number:**  
**ETL scope:** EU132063  
**MVS:** 211

**VKU date:** 01.10.1990

**VKU' date:**

**Commissioning date:**

**Begin of guarantee period:**

**Man. begin of guar. period:** no

**End of guarantee period:**

**ID maintenance contract:**

**ID insurance contract:**

**Guarantee package:**

## Assembly group directory

<b>Equipment:</b>	00007991380	<b>Engine type:</b>	F12L 413F
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<b>ETL scope:</b>	EU132063		

<b>CG</b>	<b>ETL-No.</b>	<b>Designation (en)</b>	<b>Designation (en)</b>
<b>1</b>		<b>Crankcase</b>	
1	0500 1804	Suspension	Suspension
1	0500 1808	Cover	Cover
1	0501 3054	Eye/lug	Eye/lug
1	0501 3174	Rear end cover	Rear end cover
1	0501 3306	Oil filler	Oil filler
1	0501 3313	Breather	Breather
1	0502 0737	Crankcase	Crankcase
1	0502 0752	Carrier	Carrier
1	0502 1186	Blanking parts	Blanking parts
1	0502 1379	Connecting pipe	Connecting pipe
1	0502 3577	Handling eye	Handling eye
1	0503 0015	Tdc-pointer	Tdc-pointer
1	0503 2316	Dipstick	Dipstick
1	0503 7135	Venting box	Venting box
1	0505 1871	Accessories	Accessories
1	0506 4285	Cover	Cover
1	0506 4873	Tappet bridge	Tappet bridge
<b>2</b>		<b>Oil pan</b>	
2	0503 3254	Oil pan	Oil pan
<b>4</b>		<b>Cylinder</b>	
4	0505 0625	Cylinder	Cylinder
<b>5</b>		<b>Crankshaft</b>	
5	0502 1079	Driving parts	Driving parts
5	0503 7553	Crankshaft	Crankshaft
5	0505 0953	Vibration damper	Vibration damper
<b>6</b>		<b>Connecting rod</b>	
6	0505 0818	Connecting rod	Connecting rod
<b>7</b>		<b>Piston</b>	
7	0506 4459	Piston	Piston
<b>8</b>		<b>Cylinder head</b>	
8	0504 2633	Fastenings	Fastenings
8	0505 1227	Cylinder head	Cylinder head
<b>10</b>		<b>Camshaft</b>	
10	0502 2603	Camshaft	Camshaft
<b>11</b>		<b>Timing gears</b>	
11	0502 1334	Valve drive	Valve drive
<b>14</b>		<b>Lube oil pump</b>	
14	0503 3199	Lubricat. oil pump	Lubricat. oil pump
<b>15</b>		<b>Lube oil/-cooler</b>	
15	0500 3239	Reversing channel	Reversing channel
15	0501 3044	Fuse/lock	Fuse/lock
15	0501 3326	Connecting parts	Connecting parts
15	0502 3512	Lubric. oil cooler	Lubric. oil cooler
15	0503 2122	Filter cartridge	Filter cartridge
15	0503 7577	Bracket	Bracket
15	0504 2535	Blanking parts	Blanking parts
<b>16</b>		<b>Oil pipes</b>	
16	0503 3255	Lubricat. oil line	Lubricat. oil line

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CG	ETL-No.	Designation (en)	Designation (en)
<b>17</b>		<b>Injection pump</b>	
17	0501 9017	Accessories	Accessories
17	0502 2593	Fuel inject. pump	Fuel inject. pump
17	0502 9211	Parts of fuel pump	Parts of fuel pump
17	0505 0612	Hand pump	Hand pump
17	0506 4548	Clutch/coupling	Clutch/coupling
<b>18</b>		<b>Injection pump drive</b>	
18	0503 3018	Accessories	Accessories
18	0506 4777	Inject. pump drive	Inject. pump drive
<b>19</b>		<b>Injector</b>	
19	0500 5000	Fuel injector	Fuel injector
19	0502 9023	Parts of injector	Parts of injector
<b>20</b>		<b>Fuel filter</b>	
20	0500 2550	Fuel prefilter	Fuel prefilter
20	0500 3942	Fuel duplex filter	Fuel duplex filter
20	0501 3128	Hose assembly	Hose assembly
20	0502 2403	Fuel line	Fuel line
20	0502 3619	Accessories	Accessories
20	0505 1118	Fuel line	Fuel line
<b>21</b>		<b>Fuel pipes/fuel tank</b>	
21	0500 2068	Accessories	Accessories
21	0500 4139	Fastenings	Fastenings
21	0500 4809	High pressure pipe	High pressure pipe
21	0501 9204	Leak off line	Leak off line
21	0503 1211	Leak off line	Leak off line
<b>22</b>		<b>Suction pipe/air cleaner</b>	
22	0502 1041	Suction pipe	Suction pipe
22	0502 1301	Suction pipe	Suction pipe
<b>26</b>		<b>Heater plug installation</b>	
26	0503 7165	Blanking parts	Blanking parts
<b>29</b>		<b>Control linkage</b>	
29	0500 5757	Engine speed contr	Engine speed contr
<b>33</b>		<b>Air compressor</b>	
33	0500 2208	Blanking parts	Blanking parts
33	0502 3487	Blanking parts	Blanking parts
<b>39</b>		<b>Cooling air blower</b>	
39	0500 2269	Blanking parts	Blanking parts
39	0500 5097	Fastenings	Fastenings
39	0500 5781	Intermediate shaft	Intermediate shaft
39	0503 1236	Accessories	Accessories
39	0503 3048	Blower drive	Blower drive
39	0503 3049	Bypass line	Bypass line
39	0503 3086	Blower drive	Blower drive
39	0505 1438	Gear transmission	Gear transmission
39	0506 4540	Cooling blower	Cooling blower
39	0506 4852	Gear transmission	Gear transmission
<b>40</b>		<b>Cooling air ducting</b>	
40	0500 4021	Cool. air cowling	Cool. air cowling
40	0500 4971	Cool. air cowling	Cool. air cowling
40	0501 3335	Cool. air cowling	Cool. air cowling

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CG	ETL-No.	Designation (en)	Designation (en)
40	0502 0709	Cool. air cowling	Cool. air cowling
40	0502 0974	Air guide hood	Air guide hood
40	0502 1268	Cover plate	Cover plate
40	0502 3403	Rail/bar	Rail/bar
40	0503 7584	Cool. air cowling	Cool. air cowling
<b>41</b>		<b>Exhaust manifold</b>	
41	0500 2097	Flange	Flange
41	0502 1226	Cooling air baffle	Cooling air baffle
41	0502 1565	Exhaust manifold	Exhaust manifold
41	0502 1566	Exhaust manifold	Exhaust manifold
<b>44</b>		<b>Alternator/starter motor</b>	
44	0502 1430	Plug	Plug
44	0502 9398	Parts start.motor	Parts start.motor
44	0503 7286	Cap	Cap
44	0505 0189	Starter	Starter
44	0505 0828	Accessories	Accessories
44	0505 1590	Generator	Generator
44	0505 1645	Parts of alternat.	Parts of alternat.
<b>51</b>		<b>Measuring instruments</b>	
51	0500 2431	Drive	Drive
51	0500 5816	Accessories	Accessories
<b>52</b>		<b>Clutch</b>	
52	0503 7491	Connection housing	Connection housing
<b>56</b>		<b>Engine shutdown</b>	
56	0502 3446	Shutdown device	Shutdown device
56	0503 2210	Accessories	Accessories
<b>75</b>		<b>Heating system</b>	
75	0501 9068	Blanking parts	Blanking parts
<b>97</b>			
97	0324 1098	Blanking parts	Blanking parts
97	0324 1125	Crankcase	Crankcase
97	0324 1132	Oil filler	Oil filler
97	0324 1189	Bypass line	Bypass line
97	0324 1200	Lubric. oil filter	Lubric. oil filter
97	0324 1243	Blanking parts	Blanking parts
97	0324 1310	Fuel line	Fuel line
97	0324 1350	Blanking parts	Blanking parts
97	0324 1381	Supply pump	Supply pump
97	0324 1431	Speed adjustment	Speed adjustment
97	0324 1493	Exhaust manifold	Exhaust manifold
97	0324 1532	Companion flange	Companion flange
97	0324 1644	Cover	Cover
97	0324 1652	Mounting foot	Mounting foot
97	0324 1674	Driving parts	Driving parts
97	0324 1682	Connection housing	Connection housing
97	0324 1812	Speed monit.system	Speed monit.system
97	0324 1855	Handling device	Handling device
97	0324 2266	Air guide hood	Air guide hood
97	0324 2289	Air supply pipe	Air supply pipe
97	0324 2639	Fuel inject. pump	Fuel inject. pump
97	0324 2710	Oil cooler	Oil cooler

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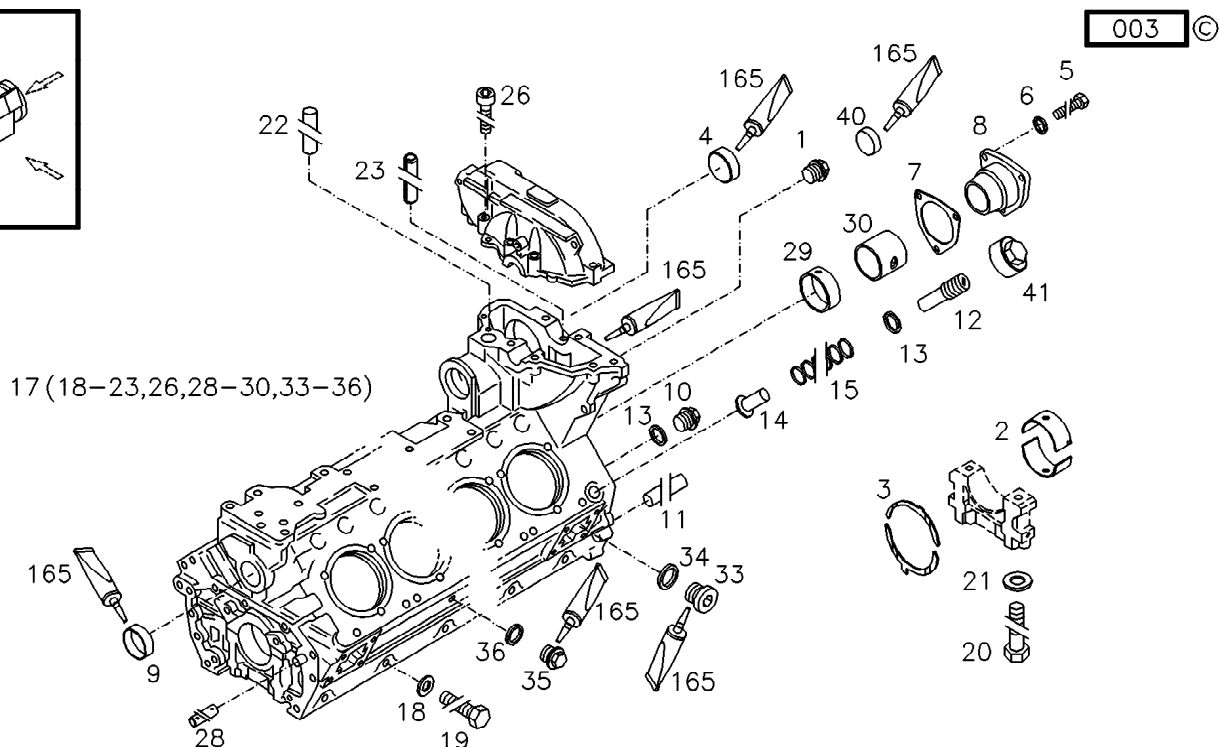
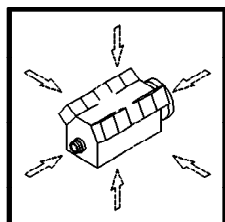
CG	ETL-No.	Designation (en)	Designation (en)
97	0324 3206	Cap	Cap
97	0324 3299	Fuel duplex filter	Fuel duplex filter
97	0324 3310	Hose assembly	Hose assembly
97	0324 3318	Fuel line	Fuel line
97	0324 3340	Leak off line	Leak off line
97	0324 3398	Inject. pump drive	Inject. pump drive
97	0324 3515	Carrier	Carrier
97	0324 3527	Cooling blower	Cooling blower
97	0324 3565	Shutdown device	Shutdown device
97	0324 3631	Dipstick	Dipstick
97	0324 3859	Blanking parts	Blanking parts
97	0324 3922	Oil pan	Oil pan
97	0324 4628	Basic parts	Basic parts
97	0324 4732	Cylinder head	Cylinder head
97	0324 4990	Starter	Starter
97	0324 5847	Generator	Generator

ETL no.: 0502 0737 Crankcase

Constr. Group: 01

Equipment: 00007991380  
Output: 0000176,0 kW  
ETL scope: EU132063

Engine type: F12L 413F  
Speed: 1500 1/min



0502 0737

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	03361343	Kit ?			1	ST		Screw plug	Screw plug	
2	04180681	Kit ?			7	SA		Main bearing	Main bearing	STANDARD (A)MM RD, FOR UNDERSIZE SEE ITEM (B) (A) 95,00 MM RD (B) 950-955 AUSSENDURCHMESSER 101 M M
3	02422297	Kit ?			2	ST		Thrust washer	Thrust washer	STANDARD (A)MM RD, FOR UNDERSIZE SEE ITEM (B) (A) 94,50 MM RD (B) 956-961
4	03361334	Kit ?	50	50	1	ST		Core hole plug	Core hole plug	
5	01137083	Kit ?	20	20	3	ST		Hexagon bolt	Hexagon bolt	
6	01118654	Kit ?			3	ST		Sealing ring	Sealing ring	
7	02192080	Kit ?			1	ST		Gasket	Gasket	
8	02192079	Kit ?			1	ST		Cover	Cover	
9	02403129	Kit ?			1	ST		Cover	Cover	
10	01216200	Kit ?			1	ST		Screw plug	Screw plug	
11	01102854	Kit ?			2	ST		Parallel pin	Parallel pin	
12	02425190	Kit ?			1	ST		Adjusting screw	Adjusting screw	
13	01118784	Kit ?			2	ST		Sealing ring	Sealing ring	
14	02403032	Kit ?			1	ST		Valve plunger	Valve plunger	
15	02403033	Kit ?			1	ST		Compression spring	Compression spring	

ETL no.: 0502 0737 Crankcase

Constr. Group: 01

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 ETL scope: EU132063

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 Speed: 1500 1/min

Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
17	02422110	Kit ?	AW 1	ST			Crankcase	Crankcase	WITH ITEM.... (18-23,26,28-30,33-36)
18	02403108	Kit ?		14	ST		Plain washer	Plain washer	
19	01112633	Kit ?		14	ST		Hexagon bolt	Hexagon bolt	
20	01102166	Kit ?		14	ST		Hexagon bolt	Hexagon bolt	
21	02408062	Kit ?		14	ST		Plain washer	Plain washer	
22	01105127	Kit ?		1	ST		Parallel pin	Parallel pin	
23	01115463	Kit ?		1	ST		Straight pin	Straight pin	
26	01152828	Kit ?		6	ST		Cheese head screw	Cheese head screw	
28	02404726	Kit ?		1	ST		Oil pipe	Oil pipe	
29	02192071	Kit ?		6	ST		Bush	Bush	
30	02192072	Kit ?		1	ST		Bush	Bush	
33	01110423	Kit ?		8	ST		Screw plug	Screw plug	
34	01118693	Kit ?		8	ST		Sealing ring	Sealing ring	
35	01118971	Kit ?		1	ST		Screw plug	Screw plug	
36	01118718	Kit ?		1	ST		Sealing ring	Sealing ring	
40	01165832	Kit ?		1	ST		Core hole plug	Core hole plug	
41	02416414	Kit ?		1	ST		Cap nut	Cap nut	
165	01091503	Kit ?		1	ST		Packing compound	Packing compound	
950	04180682	Kit ?		7	ST		Main bearing	Main bearing	1ST UNDERSIZE 94,75 MM RD AUSSENDURCHMESSER 101 M M
951	04180683	Kit ?		7	ST		Main bearing	Main bearing	2ND UNDERSIZE 94,50 MM RD AUSSENDURCHMESSER 101 M M
952	04180684	Kit ?		7	ST		Main bearing	Main bearing	3RD UNDERSIZE 94,25 MM RD AUSSENDURCHMESSER 101 M M
953	04180685	Kit ?		7	ST		Main bearing	Main bearing	4TH UNDERSIZE 94,00 MM RD AUSSENDURCHMESSER 101 M M
954	04180686	Kit ?		7	ST		Main bearing	Main bearing	5TH UNDERSIZE 93,75 MM RD AUSSENDURCHMESSER 101 M M
955	04180687	Kit ?		7	ST		Main bearing	Main bearing	6TH UNDERSIZE 93,50 MM RD AUSSENDURCHMESSER 101 M M
956	02422298	Kit ?		2	SA		Thrust washer	Thrust washer	1ST UNDERSIZE 94,75 MM RD
957	02422299	Kit ?		2	ST		Thrust washer	Thrust washer	2ND UNDERSIZE 94,50 MM RD
958	02422300	Kit ?		2	ST		Thrust washer	Thrust washer	3RD UNDERSIZE 94,25 MM RD
959	02422301	Kit ?		2	ST		Thrust washer	Thrust washer	4TH UNDERSIZE 94,00 MM RD
960	02422302	Kit ?		2	ST		Thrust washer	Thrust washer	5TH UNDERSIZE 93,75 MM RD
961	02422303	Kit ?		2	ST		Thrust washer	Thrust washer	6TH UNDERSIZE 93,50 MM RD
962	04183600	Kit ?		7	ST		Main bearing	Main bearing	STANDARD (A)MM RD, FOR UNDERSIZE SEE ITEM (B)

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ETL scope:EU132063

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Speed:1500 1/min

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
										(A) 95,00 MM RD (B) 963-965 AUSSENDURCHMESSER 101,5 MM
963	04183601	Kit ?			7	ST		Main bearing	Main bearing	1ST UNDERSIZE 94,75 MM RD AUSSENDURCHMESSER 101,5 MM
964	04183602	Kit ?	70	7		ST		Main bearing	Main bearing	2ND UNDERSIZE 94,50 MM RD AUSSENDURCHMESSER 101,5 MM
965	04183603	Kit ?	70	7		ST		Main bearing	Main bearing	4TH UNDERSIZE 94,00 MM RD AUSSENDURCHMESSER 101,5 MM