

**Equipment information**

**Equipment:** 60412010032  
**Type:** TBD12 604BV  
**Output:** 0001260,0 kW  
**Speed:** 1800 1/min  
**Build date:** 01.06.1990  
**KLU-Number:**  
**ETL scope:** EU195519  
**MVS:** 212

**VKU date:** 01.06.1990

**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>	60412010032	<b>Engine type:</b>	TBD12 604BV
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CG	ETL-No.	Designation (en)	Designation (en)
<b>1</b>		<b>Crankcase</b>	
1	0508 1095	Disch./drain pipe	Disch./drain pipe
1	0508 1391	Crankcase	Crankcase
1	0508 1393	Crankc. end cover	Crankc. end cover
1	0508 1394	Gear-box cover	Gear-box cover
1	0508 1398	Engine mounting	Engine mounting
1	0508 1428	Oil filler neck	Oil filler neck
1	0508 1429	Crankcase breather	Crankcase breather
1	0508 1430	Crankcase breather	Crankcase breather
1	0508 1431	Blank flange	Blank flange
1	0508 1978	Tdc-pointer	Tdc-pointer
1	0508 1986	Hole cover	Hole cover
1	0508 2123	Bracket	Bracket
<b>2</b>		<b>Oil pan</b>	
2	0508 2711	Oil pan	Oil pan
2	0508 3390	Dipstick	Dipstick
<b>5</b>		<b>Crankshaft</b>	
5	0508 0852	Starter ring gear	Starter ring gear
5	0508 1399	Crankshaft	Crankshaft
5	0508 2140	Stop ring	Stop ring
5	0508 2142	Main bearing	Main bearing
5	0508 2143	Crankshaft access.	Crankshaft access.
5	0508 2182	Flywheel flange	Flywheel flange
5	0508 2529	Flywheel	Flywheel
5	0508 3360	Crankshaft access.	Crankshaft access.
<b>6</b>		<b>Connecting rod</b>	
6	0508 2320	Big end bearing	Big end bearing
6	0508 3321	Connecting rod	Connecting rod
<b>7</b>		<b>Piston</b>	
7	0508 1279	Piston	Piston
<b>8</b>		<b>Cylinder head</b>	
8	0508 1177	Valve mechan.cover	Valve mechan.cover
8	0508 1405	Cylinder head	Cylinder head
8	0508 2115	Regulator	Regulator
8	0508 2179	Installation parts	Installation parts
8	0508 2181	Cool.water passage	Cool.water passage
8	0508 2243	Control	Control
<b>9</b>		<b>Timing chest</b>	
9	0508 1329	Blanking parts	Blanking parts
9	0508 1402	Axle	Axle
9	0508 1444	Idler gear	Idler gear
<b>10</b>		<b>Camshaft</b>	
10	0508 2130	Cover	Cover
10	0508 3146	Camshaft	Camshaft
10	0508 3380	Camshaft drive	Camshaft drive
<b>11</b>		<b>Timing gears</b>	
11	0508 1173	Protecting tube	Protecting tube
11	0508 1176	Rocker arm bracket	Rocker arm bracket
11	0508 2124	Valve drive	Valve drive
11	0508 2397	Valve bridge	Valve bridge

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CG	ETL-No.	Designation (en)	Designation (en)
<b>14</b>		<b>Lube oil pump</b>	
14	0508 1411	Lubricat. oil pump	Lubricat. oil pump
14	0508 2121	Installation parts	Installation parts
14	0508 2353	Lube pump	Lube pump
14	0508 2880	Lube pump	Lube pump
<b>15</b>		<b>Lube oil/-cooler</b>	
15	0502 9979	Centrifuge	Centrifuge
15	0508 1396	Radiator bracket	Radiator bracket
15	0508 1417	Lubric. oil filter	Lubric. oil filter
15	0508 1432	Cover	Cover
15	0508 1851	Oil centrifuge	Oil centrifuge
15	0508 2197	Oil cooler	Oil cooler
15	0508 2235	Lubric. oil filter	Lubric. oil filter
15	0508 2884	Oil cooler	Oil cooler
<b>16</b>		<b>Oil pipes</b>	
16	0508 1105	Oil press.reg.valv	Oil press.reg.valv
16	0508 1306	Lubricat. oil line	Lubricat. oil line
16	0508 1410	Oil suction line	Oil suction line
16	0508 1412	Lubricat. oil line	Lubricat. oil line
16	0508 1416	Piston cooling	Piston cooling
16	0508 1418	Lubricat. oil line	Lubricat. oil line
16	0508 1421	Pressure oil line	Pressure oil line
16	0508 1422	Oil drain	Oil drain
16	0508 1423	Lubricat. oil line	Lubricat. oil line
16	0508 1424	Lubricat. oil line	Lubricat. oil line
16	0508 1425	Pressure oil line	Pressure oil line
16	0508 1512	Three-way cock	Three-way cock
16	0508 1515	Vane pump	Vane pump
16	0508 1516	Pump holder	Pump holder
16	0508 1517	Drain line	Drain line
16	0508 1726	Lubricat. oil line	Lubricat. oil line
16	0508 1839	Vane pump	Vane pump
16	0508 1846	Lubricat. oil line	Lubricat. oil line
16	0508 1849	Oil drain	Oil drain
16	0508 2176	Lubricat. oil line	Lubricat. oil line
16	0508 2196	Oil line	Oil line
16	0508 2456	Feed line	Feed line
16	0508 2457	Return line	Return line
16	0508 2714	Oil drain pipe	Oil drain pipe
16	0508 2885	Pressure oil line	Pressure oil line
16	0508 2887	Oil line	Oil line
16	0508 2888	Blanking parts	Blanking parts
16	0508 2919	Oil line	Oil line
16	0508 2973	Oil line	Oil line
16	0508 3264	Oil line	Oil line
<b>17</b>		<b>Injection pump</b>	
17	0508 1246	Indicator	Indicator
17	0508 2211	Limit stop	Limit stop
17	0508 2218	Fastenings	Fastenings
17	0508 2464	Fuel inject. pump	Fuel inject. pump
17	0508 2502	Lp pipe	Lp pipe
17	0508 2715	Indicator	Indicator

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CG	ETL-No.	Designation (en)	Designation (en)
<b>18</b>		<b>Injection pump drive</b>	
18	0508 1126	Multidisc clutch	Multidisc clutch
18	0508 1315	Bearing housing	Bearing housing
18	0508 1586	Drive gear	Drive gear
<b>19</b>		<b>Injector</b>	
19	0508 1860	Fuel injector	Fuel injector
19	0508 2165	Clamping yoke	Clamping yoke
19	0508 2166	Installation parts	Installation parts
<b>20</b>		<b>Fuel filter</b>	
20	0508 1866	Bracket	Bracket
20	0508 1867	Fuel duplex filter	Fuel duplex filter
20	0508 2350	Fuel duplex filter	Fuel duplex filter
<b>21</b>		<b>Fuel pipes/fuel tank</b>	
21	0508 1439	Fuel line	Fuel line
21	0508 1440	Manifold	Manifold
21	0508 1442	High pressure pipe	High pressure pipe
21	0508 1869	Leak off line	Leak off line
21	0508 2104	Hose assembly	Hose assembly
21	0508 2447	High pressure pipe	High pressure pipe
<b>22</b>		<b>Suction pipe/air cleaner</b>	
22	0508 1918	Filter	Filter
22	0508 3388	Filter insert	Filter insert
<b>27</b>		<b>Speed control</b>	
27	0508 1317	Speed governor	Speed governor
27	0508 1437	Governor drive	Governor drive
<b>29</b>		<b>Control linkage</b>	
29	0508 1441	Control linkage	Control linkage
29	0508 2259	Adjuster	Adjuster
29	0508 2283	Cover	Cover
<b>34</b>		<b>Vibration damper</b>	
34	0508 1979	Fastenings	Fastenings
34	0508 2192	Vibration damper	Vibration damper
<b>36</b>		<b>Water cooler</b>	
36	0508 3535	Bracket	Bracket
<b>37</b>		<b>Cooling water pump</b>	
37	0508 1443	Centrifugal pump	Centrifugal pump
37	0508 1445	Cover	Cover
37	0508 3443	Raw water pump	Raw water pump
<b>38</b>		<b>Water pipes</b>	
38	0508 1449	Cooling water line	Cooling water line
38	0508 2458	Cooling water line	Cooling water line
38	0508 2459	Cooling water line	Cooling water line
38	0508 2460	Cooling water line	Cooling water line
38	0508 2707	Connection	Connection
38	0508 3446	Bracket	Bracket
38	0508 3447	Pipeline	Pipeline
<b>41</b>		<b>Exhaust manifold</b>	
41	0508 0878	Compensator	Compensator
41	0508 1921	Exhaust manifold	Exhaust manifold
41	0508 1949	Exhaust pipe	Exhaust pipe

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41	0508 2112	Exhaust cover	Exhaust cover
41	0508 2314	Compensator	Compensator
41	0508 2392	Exhaust manifold	Exhaust manifold
41	0508 2393	Exhaust manifold	Exhaust manifold
41	0508 2394	Exhaust manifold	Exhaust manifold
41	0508 2395	Exhaust manifold	Exhaust manifold
41	0508 2442	Exhaust elbow	Exhaust elbow
<b>43</b>		<b>Turbocharger</b>	
43	0508 0317	Accessories	Accessories
43	0508 1917	Accessories	Accessories
43	0508 1922	Compensator	Compensator
43	0508 2461	Breather	Breather
43	0508 2910	Turbocharger	Turbocharger
43	0508 3328	Turbocharger	Turbocharger
<b>44</b>		<b>Alternator/starter motor</b>	
44	0506 4266	Generator	Generator
44	0508 0900	Holder	Holder
44	0508 1255	Alternator	Alternator
44	0508 1261	Controller	Controller
44	0508 1377	Drive	Drive
44	0508 2109	Starter support	Starter support
44	0509 5567	Parts of alternat.	Parts of alternat.
<b>46</b>		<b>Engine mounting, rigid</b>	
46	0508 1397	Claw	Claw
<b>47</b>		<b>Engine mounting, flexible</b>	
47	0508 2690	Silentbloc	Silentbloc
<b>48</b>		<b>Electrical accessories</b>	
48	0501 9305	Monitoring	Monitoring
48	0502 8694	Pressure switch	Pressure switch
48	0503 3560	Temper.transmitter	Temper.transmitter
48	0503 3561	Switching device	Switching device
48	0508 2234	Flow switch	Flow switch
48	0508 2246	Switching device	Switching device
48	0508 2247	Rectifier	Rectifier
48	0508 2248	Reversing relay	Reversing relay
48	0508 2401	Flow switch	Flow switch
48	0508 2506	Flow switch	Flow switch
48	0508 2692	Switching device	Switching device
48	0508 2693	Temper.transmitter	Temper.transmitter
48	0508 2750	Relay	Relay
48	0508 3032	Connector	Connector
48	0508 3238	Temper.transmitter	Temper.transmitter
48	0508 3488	Cabling	Cabling
48	0508 3572	Switching device	Switching device
48	0508 3573	Switching device	Switching device
<b>49</b>		<b>Tools</b>	
49	0508 2770	Toolkit	Toolkit
49	0508 3591	Toolkit	Toolkit
<b>51</b>		<b>Measuring instruments</b>	
51	0503 7426	Pressure sensor	Pressure sensor
51	0508 1939		

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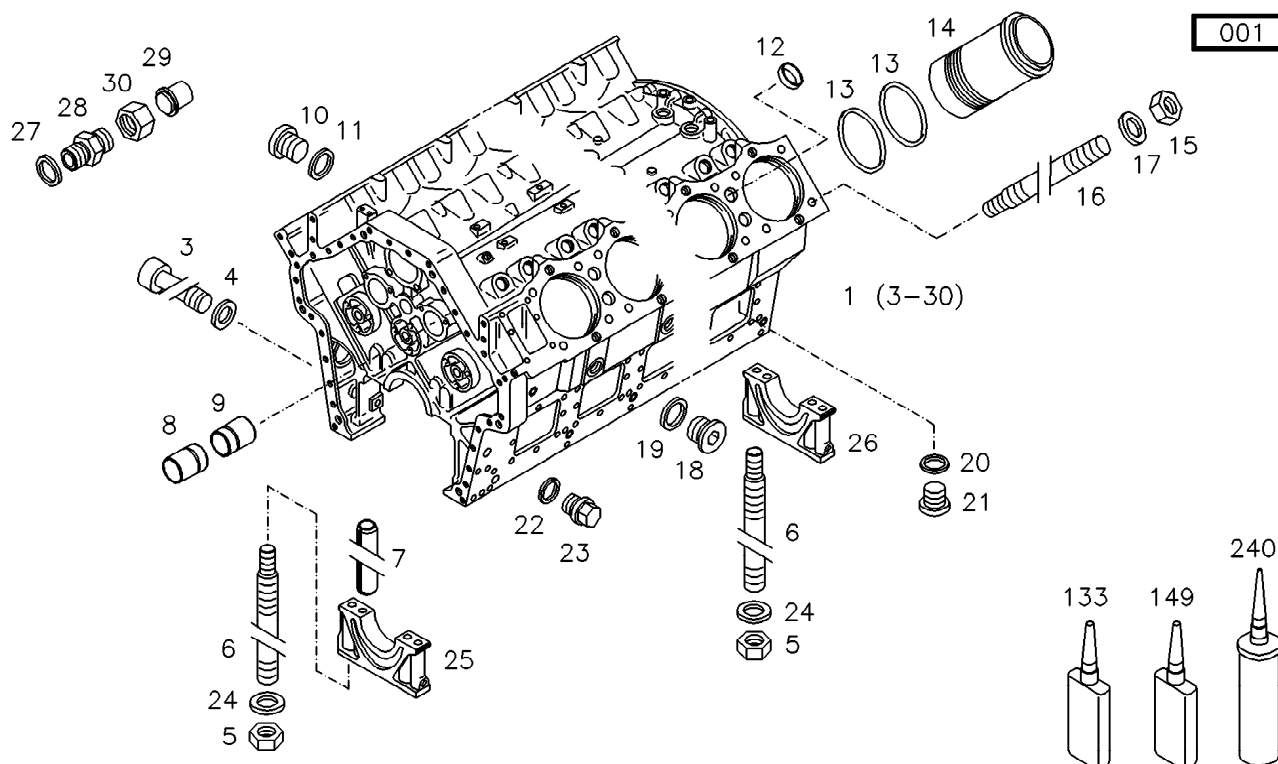
CG	ETL-No.	Designation (en)	Designation (en)
51	0508 1961	Tachoconnector	Tachoconnector
51	0508 1970	Thermometer	Thermometer
51	0508 1972	Pressure gauge	Pressure gauge
51	0508 1973	Pressure gauge	Pressure gauge
51	0508 2291	Speedometer drive	Speedometer drive
51	0508 2292	Speedometer drive	Speedometer drive
51	0508 2691	Tacho indicator	Tacho indicator
51	0508 2758	Elapsed-hour meter	Elapsed-hour meter
51	0508 2958	Pressure gauge	Pressure gauge
51	0508 2959	Pressure gauge	Pressure gauge
51	0508 2963	Thermometer	Thermometer
51	0508 3150	Pressure sensor	Pressure sensor
51	0508 3249	Thermometer	Thermometer
51	0508 3405	Sensor	Sensor
51	0508 3428	Pressure sensor	Pressure sensor
51	0508 3525	Temper.transmitter	Temper.transmitter
51	0508 3557	Protecting cap	Protecting cap
51	0508 3882	Tacho-generator	Tacho-generator
<b>56 Engine shutdown</b>			
56	0508 1249	Magnet/solenoid	Magnet/solenoid
<b>57 V-belt guard</b>			
57	0508 1389	Protection hood	Protection hood
57	0508 3619	Protection	Protection
57	0508 3621	Protection	Protection
<b>58 Intercooler</b>			
58	0508 2256	Charge air cooler	Charge air cooler
58	0508 2324	Radiator bracket	Radiator bracket
58	0508 2325	Radiator bracket	Radiator bracket
<b>63 Starting aid</b>			
63	0508 2516	Heater connection	Heater connection
63	0508 2517	Heater connection	Heater connection
<b>87 Charge air pipe</b>			
87	0508 1363	Air guidance	Air guidance
87	0508 1948	Intake manifold	Intake manifold
87	0508 2006	Air guidance	Air guidance
87	0508 2010	Air guidance	Air guidance
87	0508 2250	Air guidance	Air guidance
87	0508 2251	Bush	Bush
87	0508 2252	Cover	Cover
87	0508 2282	Bush	Bush
87	0508 2284	Air guidance	Air guidance
87	0508 2418	Air guidance	Air guidance
87	0508 2485	Cover	Cover
87	0508 3302	Cover	Cover
87	0508 3305	Air guidance	Air guidance
<b>96 Flexible tubing, various media</b>			
96	0508 2417	Breather line	Breather line

ETL no.: 0508 1391 Crankcase

Constr. Group: 01

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0508 1391

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12047301				1	ST		Engine block	Engine block	WITH ITEM.... (3-30)
3	01154900				14	ST		Cheese head screw	Cheese head screw	
4	01176707				14	ST		Plain washer	Plain washer	
5	01176614				28	ST		Hexagon nut	Hexagon nut	
6	12027039				28	ST		Stud	Stud	
7	01176666				14	ST		Straight pin	Straight pin	
8	12137475				2	ST		Bearing bush	Bearing bush	
9	12137474				12	ST		Bearing bush	Bearing bush	
10	01110423				4	ST		Screw plug	Screw plug	
11	01118693				4	ST		Sealing ring	Sealing ring	
12	01151199				20	ST		Cover	Cover	
13	12027235	10	10		24	ST		O-ring	O-ring	
14	12135933	10	10		12	ST		Cylinder liner	Cylinder liner	
15	01176614				48	ST		Hexagon nut	Hexagon nut	
16	12136064				48	ST		Waisted stud	Waisted stud	
17	01176709				48	ST		Plain washer	Plain washer	
18	01176771				5	ST		Screw plug	Screw plug	
19	01151322				5	ST		Sealing ring	Sealing ring	
20	01118718				2	ST		Sealing ring	Sealing ring	
21	01151441				2	ST		Screw plug	Screw plug	
22	01118760				1	ST		Sealing ring	Sealing ring	
23	01110442				1	ST		Screw plug	Screw plug	

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24	01176709			28	ST		Plain washer	Plain washer	
25	12030936			1	ST		Main bearing cap	Main bearing cap	
26	12030934			6	ST		Main bearing cap	Main bearing cap	
27	01118673			1	ST		Sealing ring	Sealing ring	
28	01119114			1	ST		Twin nipple	Twin nipple	
29	01216515			1	ST		Blank cone	Blank cone	
30	01119038			1	ST		Union nut	Union nut	
133	01016113			1	ST		Safety/lock.agent	Safety/lock.agent	
149	01009670			1	ST		Safety/lock.agent	Safety/lock.agent	
240	01009885			1	ST		Packing compound	Packing compound	