

**Equipment information**

**Equipment:** 23416001391  
**Type:** TBD16 234V  
**Output:** 0000755,0 kW  
**Speed:** 2200 1/min  
**Build date:** 01.08.1993  
**KLU-Number:**  
**ETL scope:** EU087857  
**MVS:** 111

**VKU date:** 01.08.1993

**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>	23416001391	<b>Engine type:</b>	TBD16 234V
<b>Output:</b>	0000755,0 kW	<b>Speed:</b>	2200 1/min
<b>ETL scope:</b>	EU087857		

CG	ETL-No.	Designation (en)	Designation (en)
<b>1</b>		<b>Crankcase</b>	
1	0509 0676	Blanking parts	Blanking parts
1	0509 0678	Cover	Cover
1	0509 1291	Crankcase breather	Crankcase breather
1	0509 1480	Crankcase breather	Crankcase breather
1	0509 1482	Crankc. end cover	Crankc. end cover
1	0509 1495	Engine mounting	Engine mounting
1	0509 1496	Crankcase	Crankcase
1	0509 4645	Main bearing	Main bearing
<b>2</b>		<b>Oil pan</b>	
2	0509 1500	Oil pan	Oil pan
<b>5</b>		<b>Crankshaft</b>	
5	0509 1265	V-grooved pulley	V-grooved pulley
5	0509 1463	Crankshaft	Crankshaft
5	0509 4378	Vibration damper	Vibration damper
5	0509 4749	Flywheel	Flywheel
<b>6</b>		<b>Connecting rod</b>	
6	0509 0600	Connecting rod	Connecting rod
<b>7</b>		<b>Piston</b>	
7	0509 0599	Piston	Piston
<b>8</b>		<b>Cylinder head</b>	
8	0509 0488	Cylinder head	Cylinder head
8	0509 0640	Valve mechan.cover	Valve mechan.cover
<b>10</b>		<b>Camshaft</b>	
10	0509 1462	Camshaft	Camshaft
10	0509 1507	Tacho drive	Tacho drive
<b>11</b>		<b>Timing gears</b>	
11	0509 0596	Valve drive	Valve drive
11	0509 0597	Pushrod	Pushrod
<b>14</b>		<b>Lube oil pump</b>	
14	0509 1478	Lubricat. oil pump	Lubricat. oil pump
<b>15</b>		<b>Lube oil/-cooler</b>	
15	0509 1488	Oil cooler	Oil cooler
15	0509 1527	Lubric. oil filter	Lubric. oil filter
<b>16</b>		<b>Oil pipes</b>	
16	0509 1275	Lubricat. oil line	Lubricat. oil line
16	0509 1483	Lubricat. oil line	Lubricat. oil line
16	0509 1528	Lubricat. oil line	Lubricat. oil line
16	0509 1539	Lubricat. oil pump	Lubricat. oil pump
<b>17</b>		<b>Injection pump</b>	
17	0509 1472	Denture clutch	Denture clutch
17	0509 1518	Control rod	Control rod
17	0509 1533	Parts inject.pump	Parts inject.pump
17	0509 4380	Fuel inject. pump	Fuel inject. pump
17	0509 4383	Denture clutch	Denture clutch
17	0509 4766	Parts inject.pump	Parts inject.pump
17	0509 4767	Parts inject.pump	Parts inject.pump
17	0509 4768	Parts of governor	Parts of governor
17	0509 4769	Parts of governor	Parts of governor

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CG	ETL-No.	Designation (en)	Designation (en)
<b>18</b>		<b>Injection pump drive</b>	
18	0509 0643	Inject. pump drive	Inject. pump drive
<b>19</b>		<b>Injector</b>	
19	0509 0642	Fuel injector	Fuel injector
<b>20</b>		<b>Fuel filter</b>	
20	0509 0635	Fuel duplex filter	Fuel duplex filter
20	0509 4528	Fuel filter assy	Fuel filter assy
<b>21</b>		<b>Fuel pipes/fuel tank</b>	
21	0509 1487	High pressure pipe	High pressure pipe
21	0509 1534	Leak off line	Leak off line
21	0509 1537	Leak off line	Leak off line
21	0509 1983	Hose assembly	Hose assembly
21	0509 4463	High pressure pipe	High pressure pipe
21	0509 4597	Hose assembly	Hose assembly
<b>22</b>		<b>Suction pipe/air cleaner</b>	
22	0509 1489	Intake manifold	Intake manifold
22	0509 4612	Air filter	Air filter
<b>27</b>		<b>Speed control</b>	
27	0509 1535	Speed adjustment	Speed adjustment
<b>36</b>		<b>Water cooler</b>	
36	0509 4466	Heat exchanger	Heat exchanger
<b>37</b>		<b>Cooling water pump</b>	
37	0509 1318	Centrifugal pump	Centrifugal pump
37	0509 1504	Tensioning pulley	Tensioning pulley
37	0509 1505	Tensioning pulley	Tensioning pulley
37	0509 1716	Centrifugal pump	Centrifugal pump
37	0509 1717	Pump assy	Pump assy
<b>38</b>		<b>Water pipes</b>	
38	0509 0685	Cool.water preheat	Cool.water preheat
38	0509 0706	Temper. controller	Temper. controller
38	0509 1501	Cooling water line	Cooling water line
38	0509 4604	Indirect cooling	Indirect cooling
<b>39</b>		<b>Cooling air blower</b>	
39	0506 1124	Set narrow v-belts	Set narrow v-belts
<b>41</b>		<b>Exhaust manifold</b>	
41	0509 1499	Compensator	Compensator
41	0509 1966	Sheeting/panelling	Sheeting/panelling
41	0509 4440	Guard plate	Guard plate
41	0509 4455	Exhaust pipe	Exhaust pipe
<b>43</b>		<b>Turbocharger</b>	
43	0509 4509	Turbocharger	Turbocharger
43	0509 4519	Turbocharging assy	Turbocharging assy
43	0509 5689	Turbocharging assy	Turbocharging assy
<b>44</b>		<b>Alternator/starter motor</b>	
44	0509 2309	Starter motor	Starter motor
<b>46</b>		<b>Engine mounting, rigid</b>	
46	0509 1345	Silentbloc	Silentbloc
<b>48</b>		<b>Electrical accessories</b>	
48	0502 6307	Temper.transmitter	Temper.transmitter

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48	0503 3560	Temper.transmitter	Temper.transmitter
48	0503 3562	Temper.transmitter	Temper.transmitter
48	0506 5570	Switching device	Switching device
48	0509 1340	Temp.monitor.unit	Temp.monitor.unit
48	0509 4076	Monitoring	Monitoring
48	0509 4157	Thermocouple	Thermocouple
48	0509 4195	Temperature switch	Temperature switch
48	0509 4297	Thermocouple	Thermocouple
48	0509 4310	Monitoring	Monitoring
48	0509 4361	Temper.transmitter	Temper.transmitter
48	0509 4489	Monitoring	Monitoring
<b>49</b>		<b>Tools</b>	
49	0508 9361	Toolkit	Toolkit
49	0509 4173	Rod	Rod
<b>51</b>		<b>Measuring instruments</b>	
51	0509 0977	Sensor	Sensor
51	0509 1031	Thermometer	Thermometer
51	0509 1973	Thermometer	Thermometer
51	0509 2784	Pressure gauge	Pressure gauge
51	0509 2853	Pressure gauge	Pressure gauge
51	0509 4198	Accessories	Accessories
51	0509 4305	Pressure gauge	Pressure gauge
51	0509 4312	Pressure gauge	Pressure gauge
<b>52</b>		<b>Clutch</b>	
52	0509 1663	Flywheel housing	Flywheel housing
<b>56</b>		<b>Engine shutdown</b>	
56	0509 0742	Cabling	Cabling
56	0509 1498	Solenoid	Solenoid
56	0509 4416	Solenoid valv	Solenoid valv
<b>57</b>		<b>V-belt guard</b>	
57	0509 1523	V-belt guard	V-belt guard
<b>58</b>		<b>Intercooler</b>	
58	0509 0674	Charge air cooler	Charge air cooler
<b>90</b>		<b>Set of parts</b>	
90	0509 2283	Gasket set	Gasket set
90	0509 2287	Gasket set	Gasket set
90	0509 4379	Accessories	Accessories

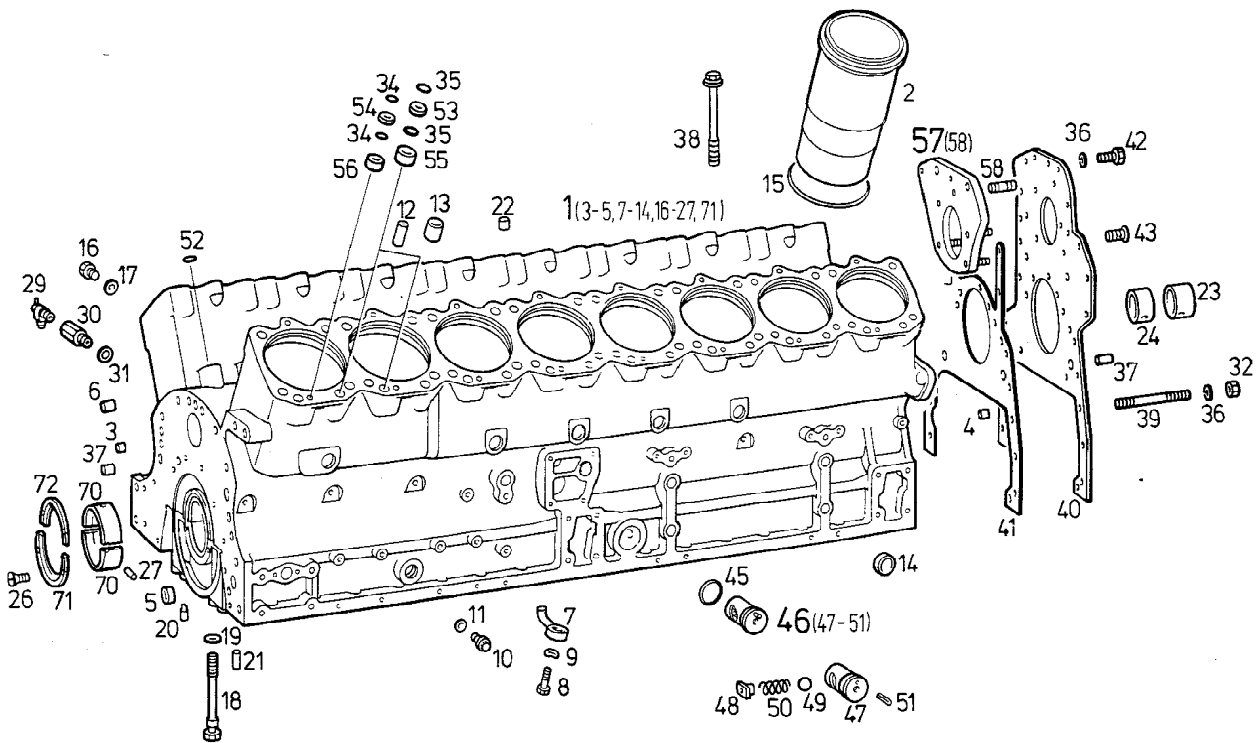
ETL no.: 0509 1496 Crankcase

Constr. Group: 01

Equipment: 23416001391  
Output: 0000755,0 kW  
ETL scope: EU087857

Engine type: TBD16 234V  
Speed: 2200 1/min

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0509 1496

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12188063				1	ST		Engine block	Engine block	WITH ITEM.... 3-5,7-14,16-27,71
2	12189090				16	ST		Cylinder liner	Cylinder liner	
3	12158444				5	ST		Plug	Plug	
4	12166281				5	ST		Plug	Plug	
5	01152710				6	ST		Cover	Cover	
6	12166280				4	ST		Plug	Plug	
7	12163269				16	ST		Nozzle	Nozzle	
8	01111151	20	20		16	ST		Hexagon bolt	Hexagon bolt	
9	01107283				16	ST		Spring washer	Spring washer	
10	01119004				2	ST		Screw plug	Screw plug	
11	01118760				2	ST		Sealing ring	Sealing ring	
12	12161000				32	ST		Sleeve	Sleeve	
13	12163165				32	ST		Sleeve	Sleeve	
14	01152711				10	ST		Cover	Cover	
15	01153813	10	10		32	ST		O-seal	O-seal	
16	01118955				1	ST		Screw plug	Screw plug	
17	01118681				1	ST		Sealing ring	Sealing ring	
18	01153796				36	ST		Hexagon bolt	Hexagon bolt	
19	01154443				70	36	ST	Plain washer	Plain washer	
20	12160931				9	ST		Pin	Pin	
21	12160932				9	ST		Pin	Pin	
22	12161005				2	ST		Bush	Bush	