

**Equipment information**

**Equipment:** 00005863123  
**Type:** BA16M 816  
**Output:** 0000000,0 kW  
**Speed:** 0000 1/min  
**Build date:** 01.01.1979  
**KLU-Number:**  
**ETL scope:** EU175602  
**MVS:** 721

**VKU date:** 01.01.1979

**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>	00005863123	<b>Engine type:</b>	BA16M 816
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<b>ETL scope:</b>	EU175602		

CG	ETL-No.	Designation (en)	Designation (en)
<b>1</b>		<b>Crankcase</b>	
1	0501 8406	Oil line	Oil line
1	0501 8413	Rear end cover	Rear end cover
1	0501 8417	Front cover	Front cover
1	0501 8436	Wet air cleaner	Wet air cleaner
1	0501 8438	Oil filler	Oil filler
1	0501 8450	Crankcase	Crankcase
1	0501 8452	Suspension eye	Suspension eye
1	0501 8495	Cover	Cover
1	0501 9314	Breather pipe	Breather pipe
<b>2</b>		<b>Oil pan</b>	
2	0501 8510	Oil pan	Oil pan
2	0501 8512	Additional tank	Additional tank
2	0501 8515	Dipstick	Dipstick
<b>5</b>		<b>Crankshaft</b>	
5	0501 8408	Damper	Damper
5	0501 8409	Fastenings	Fastenings
5	0501 8429	Crankshaft	Crankshaft
5	0501 8781	Flywheel	Flywheel
<b>6</b>		<b>Connecting rod</b>	
6	0501 8410	Connecting rod	Connecting rod
<b>7</b>		<b>Piston</b>	
7	0501 8940	Piston	Piston
<b>8</b>		<b>Cylinder head</b>	
8	0501 8637	Fastenings	Fastenings
8	0501 8784	Cylinder head	Cylinder head
<b>10</b>		<b>Camshaft</b>	
10	0501 8813	Camshaft output	Camshaft output
10	0503 1327	Gear train	Gear train
<b>11</b>		<b>Timing gears</b>	
11	0501 8415	Valve drive	Valve drive
<b>14</b>		<b>Lube oil pump</b>	
14	0501 8401	Lubricat. oil pump	Lubricat. oil pump
14	0501 8506	Valve seat lubric.	Valve seat lubric.
<b>15</b>		<b>Lube oil/-cooler</b>	
15	0501 8448	Fastenings	Fastenings
15	0501 8603	Lubric. oil filter	Lubric. oil filter
15	0501 8610	Centrifug.mounting	Centrifug.mounting
15	0503 1339	Oil cooler	Oil cooler
<b>16</b>		<b>Oil pipes</b>	
16	0501 8403	Suction pipe	Suction pipe
16	0501 8441	Semi-rotary pump	Semi-rotary pump
16	0501 8453	Piston cooling	Piston cooling
<b>17</b>		<b>Injection pump</b>	
17	0501 8545	Fuel inject. pump	Fuel inject. pump
17	0501 8549	Fastenings	Fastenings
<b>19</b>		<b>Injector</b>	
19	0501 9356	Fuel injector	Fuel injector

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CG	ETL-No.	Designation (en)	Designation (en)
<b>20</b>		<b>Fuel filter</b>	
20	0501 8520	Fuel duplex filter	Fuel duplex filter
20	0501 8948	Hose assembly	Hose assembly
<b>21</b>		<b>Fuel pipes/fuel tank</b>	
21	0501 8487	Leak off line	Leak off line
21	0501 8492	Hose assembly	Hose assembly
21	0501 8493	Accessories	Accessories
21	0501 8586	Hose assembly	Hose assembly
21	0501 8588	Fuel line	Fuel line
21	0501 8592	Hose assembly	Hose assembly
21	0501 8689	Fuel line	Fuel line
<b>22</b>		<b>Suction pipe/air cleaner</b>	
22	0501 8404	Charge air elbow	Charge air elbow
22	0501 8425	Charge air pipe	Charge air pipe
22	0501 8426	Charge air pipe	Charge air pipe
22	0503 1596	Wet air cleaner	Wet air cleaner
<b>26</b>		<b>Heater plug installation</b>	
26	0501 8816	Heater system	Heater system
<b>34</b>		<b>Vibration damper</b>	
34	0501 8756	Auxiliary drive	Auxiliary drive
<b>36</b>		<b>Water cooler</b>	
36	0501 8734	Heat exchanger	Heat exchanger
36	0501 8735	Expansion tank	Expansion tank
36	0501 8737	Support	Support
<b>37</b>		<b>Cooling water pump</b>	
37	0501 8709	Fastenings	Fastenings
37	0501 8739	Pump assy	Pump assy
37	0501 8751	Cooling water pump	Cooling water pump
37	0501 8928	Drive	Drive
37	0501 9409	Cooling water pump	Cooling water pump
<b>38</b>		<b>Water pipes</b>	
38	0501 8621	Cooling water line	Cooling water line
38	0501 8631	Cooling water line	Cooling water line
38	0501 8688	Raw water line	Raw water line
38	0501 8946	Cooling water line	Cooling water line
38	0501 9322	Bracket	Bracket
38	0501 9355	Cooling water line	Cooling water line
38	0501 9357	Cooling water line	Cooling water line
38	0503 1325	Breather line	Breather line
<b>41</b>		<b>Exhaust manifold</b>	
41	0501 8461	Support	Support
41	0501 8462	Exhaust manifold	Exhaust manifold
41	0501 8743	Accessories	Accessories
41	0501 8785	Corrugated tube	Corrugated tube
<b>42</b>		<b>Cranking device</b>	
42	0501 9381	Turn-over gear	Turn-over gear
<b>44</b>		<b>Alternator/starter motor</b>	
44	0501 8454	Starter	Starter
<b>46</b>		<b>Engine mounting, rigid</b>	
46	0501 8767	Engine mounting	Engine mounting

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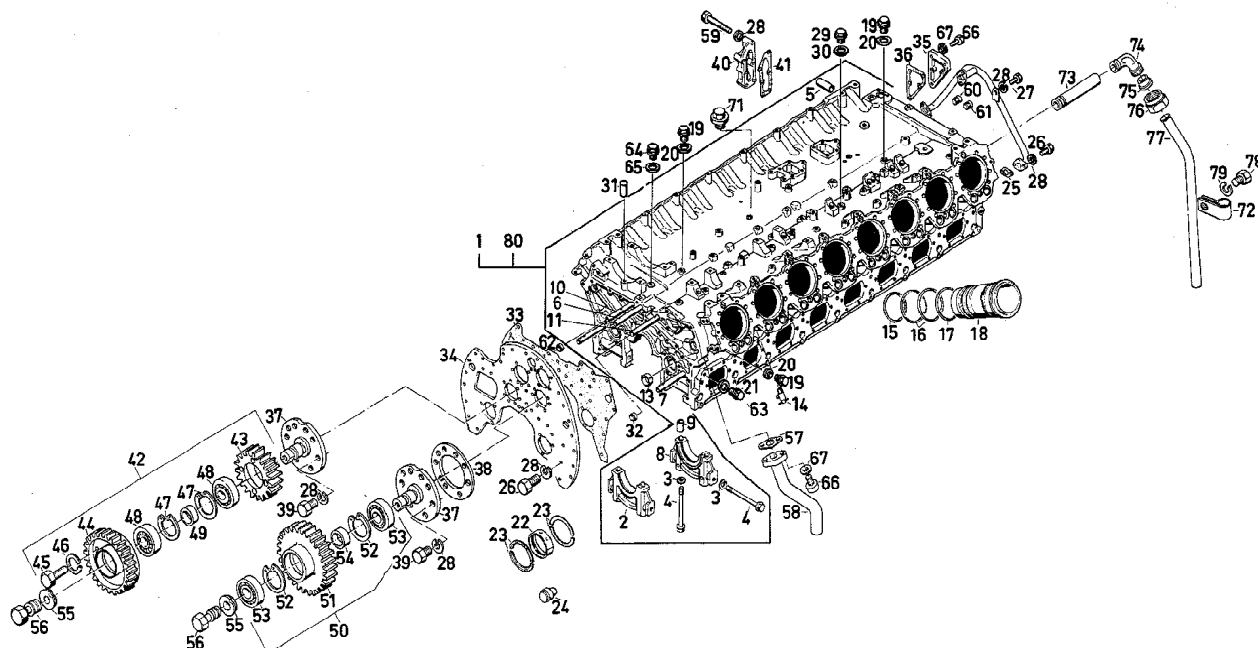
CG	ETL-No.	Designation (en)	Designation (en)
<b>48</b>		<b>Electrical accessories</b>	
48	0501 8747	Repeater relay	Repeater relay
48	0501 8758	Incandescent lamp	Incandescent lamp
48	0501 8765	Temper.transmitter	Temper.transmitter
48	0501 8766	Switching device	Switching device
48	0501 8772	Tacho switch	Tacho switch
48	0501 8782	Temper.transmitter	Temper.transmitter
48	0501 8783	Switching device	Switching device
48	0501 8800	Electrical parts	Electrical parts
48	0501 8801	Electrical parts	Electrical parts
48	0501 8803	Heater plug resist	Heater plug resist
48	0501 8931	Switching device	Switching device
48	0501 8939	Temper.transmitter	Temper.transmitter
48	0501 8950	Pushbutton	Pushbutton
48	0501 9378	Hose assembly	Hose assembly
48	0503 1677	Incandescent lamp	Incandescent lamp
<b>49</b>		<b>Tools</b>	
49	0501 8676	Fitting ring	Fitting ring
49	0501 8677	Toolkit	Toolkit
49	0501 8680	Articul spanner	Articul spanner
49	0501 9345	Hose assembly	Hose assembly
<b>51</b>		<b>Measuring instruments</b>	
51	0501 8456	Tacho drive	Tacho drive
51	0501 8477	Thermometer	Thermometer
51	0501 8480	Thermometer	Thermometer
51	0501 8491	Accessories	Accessories
51	0501 8779	Pressure gauge	Pressure gauge
51	0501 8823	Pressure gauge	Pressure gauge
51	0501 8824	Instrumentation	Instrumentation
51	0501 8833	Tacho generat.assy	Tacho generat.assy
51	0501 8944	Pressure gauge	Pressure gauge
51	0501 9379	Pressure gauge	Pressure gauge
<b>52</b>		<b>Clutch</b>	
52	0501 8719	Driving parts	Driving parts
<b>56</b>		<b>Engine shutdown</b>	
56	0501 9377	Solenoid mounting	Solenoid mounting
<b>57</b>		<b>V-belt guard</b>	
57	0501 8659	Protection hood	Protection hood
57	0501 8692	V-belt guard	V-belt guard
57	0501 9328	Protection hood	Protection hood
57	0501 9335	Protection hood	Protection hood
57	0501 9361	Cover	Cover
57	0503 1630	Protection hood	Protection hood
<b>58</b>		<b>Intercooler</b>	
58	0501 8411	Cooler assembly	Cooler assembly
58	0501 8617	Charge air cooler	Charge air cooler
58	0501 8618	Charge air cooler	Charge air cooler

ETL no.: 0501 8450 Crankcase

Constr. Group: 01

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ETL scope: EU175602

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0501 8450

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	04001164	10		1	ST			Crankcase	Crankcase	BIS MOT.-NR AB MOT.-NR.6445801 POS. 80
2	02153496			8	ST			Bearing cap	Bearing cap	
3	01216105			36	ST			Plain washer	Plain washer	
4	01215915			36	ST			Hexagon bolt	Hexagon bolt	
5	02159339			1	ST			Oil pipe	Oil pipe	
6	04000216			1	ST			Oil pipe	Oil pipe	
7	02150022			2	ST			Oil pipe	Oil pipe	
8	02153494			1	ST			Bearing cap	Bearing cap	
9	03373086			18	ST			Dowel bush	Dowel bush	
10	02158630			1	ST			Oil pipe	Oil pipe	
11	02158629			1	ST			Oil pipe	Oil pipe	
13	04001175	20		17	ST			Bearing bush	Bearing bush	
14	01120690			4	ST			Drain valve	Drain valve	
15	01162684			16	ST			O-seal	O-seal	
16	01212716			32	ST			O-seal	O-seal	
17	01178454			16	ST			O-seal	O-seal	
18	04001561			16	ST			Cylinder liner	Cylinder liner	NORMAL H.12,1MM(0,4764I N) REP.STUFE POS.960
19	01118997	20	20	18	ST			Screw plug	Screw plug	
20	01118659			18	ST			Sealing ring	Sealing ring	

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
21	01118700				2	ST		Sealing ring	Sealing ring	
22	04003003				9	SA		Main bearing	Main bearing	NORMAL 124,00MM RD.(4.8 818IN)
23	04003011				2	KG		Stop ring	Stop ring	REP.STUFEN POS.950-955 NORMAL 2,985 MM (0,1175 IN.) REP.STUFEN (POS.956-958 )
24	03362280				2	ST		Locating pin	Locating pin	
25	01120794				3	ST		Gasket	Gasket	
26	01112322	20	20		18	ST		Hexagon bolt	Hexagon bolt	
27	01112307				1	ST		Hexagon bolt	Hexagon bolt	
28	01102799				38	ST		Lock washer	Lock washer	
29	01118971				1	ST		Screw plug	Screw plug	
30	01118713				1	ST		Sealing ring	Sealing ring	
31	01105177				1	ST		Parallel pin	Parallel pin	
32	01165831				3	ST		Core hole plug	Core hole plug	
33	02159474	50	50		1	ST		Gasket	Gasket	
34	02159515	90	90		1	ST		Plate	Plate	
35	02159324				1	ST		Cover	Cover	
36	02159325				1	ST		Gasket	Gasket	
37	02158725	50	50		2	ST		Journal	Journal	
38	02159437				1	ST		Gasket	Gasket	
39	01112333	20	20		13	ST		Hexagon bolt	Hexagon bolt	
40	02159366				1	ST		Cover	Cover	
41	02159348				1	ST		Gasket	Gasket	
42	04000433				1	ST		Idler gears	Idler gears	
43	02151845				1	ST		Idler gear	Idler gear	
44	02151840				1	ST		Idler gear	Idler gear	
45	01112311	20	20		4	ST		Hexagon bolt	Hexagon bolt	
46	01102799				4	ST		Lock washer	Lock washer	
47	01107844				2	ST		Circlip	Circlip	
48	01109051				2	ST		Ball bearing	Ball bearing	BIS MOT.-NR.6640165 AB MOT.-NR.6640166 POS. 962
49	04000434				1	ST		Bush	Bush	
50	04000435	50	50		1	ST		Idler gear	Idler gear	
51	02151844	90	90		1	ST		Idler gear	Idler gear	
52	01107844				2	ST		Circlip	Circlip	
53	01109051				2	ST		Ball bearing	Ball bearing	BIS MOT.-NR.6640165 AB MOT.-NR.6640166 POS. 961
54	04000434				1	ST		Bush	Bush	
55	04000436	50	50		2	ST		Collar washer	Collar washer	
56	01166837				2	ST		Hexagon bolt	Hexagon bolt	
57	03308822				1	ST		Gasket	Gasket	
58	04007426				1	ST		Oil drain pipe	Oil drain pipe	
59	01127046	20	20		6	ST		Hexagon bolt	Hexagon bolt	
60	01165789				2	ST		Slotted plug	Slotted plug	
61	01165794				1	ST		Slotted plug	Slotted plug	
62	01165828				2	ST		Core hole plug	Core hole plug	
63	01118964	20	20		2	ST		Screw plug	Screw plug	
64	01118955				5	ST		Screw plug	Screw plug	
65	01118673				5	ST		Sealing ring	Sealing ring	
66	01126918	20	20		7	ST		Cheese head screw	Cheese head screw	
67	01119611				7	ST		Lock washer	Lock washer	
71	01104736				1	ST		Screw plug	Screw plug	

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
72	03369462				1	ST		Pipe clamp	Pipe clamp	
73	04004022				1	ST		Tube	Tube	
74	01116732		20	20	1	ST		Socket/adaptor	Socket/adaptor	
75	01116623		10	10	1	ST		Cutting ring	Cutting ring	
76	01116650		20	20	1	ST		Union nut	Union nut	
77	04004021				1	ST		Tube	Tube	
78	01126186		20	20	1	ST		Hexagon bolt	Hexagon bolt	
79	01102800				1	ST		Lock washer	Lock washer	
80	04009717		10		1	ST		Crankcase	Crankcase	
950	04003004				9	SA		Main bearing	Main bearing	1,REPARATURSTUFE 123,75MMRD(4.8720IN.)
951	04003005				9	SA		Main bearing	Main bearing	2,REPARATURSTUFE 123,50MMRD (4.8621IN.)
952	04003006				9	SA		Main bearing	Main bearing	3,REPARATURSTUFE 123,25MMRD (4.8523IN.)
953	04003007				9	SA		Main bearing	Main bearing	4,REPARATURSTUFE 123,00MMRD (4.8425IN.)
954	04003008				9	SA		Main bearing	Main bearing	5,REPARATURSTUFE 122,75MMRD (4.8326IN.)
955	04003009				9	SA		Main bearing	Main bearing	6,REPARATURSTUFE 122,50MMRD(4,8228IN.)
956	04003012				2	SA		Stop ring	Stop ring	1.REPARATURSTUFE 3,135MM (0.1234IN.)
957	04003013				2	SA		Stop ring	Stop ring	2,REPARATURSTUFE 3.285MM (0,1293IN.)
958	04003014				2	SA		Stop ring	Stop ring	3.REPARATURSTUFE 3,435MM (0,1352IN.)
960	04009718				1	ST		Cylinder liner	Cylinder liner	REPARATURSTUFE H.13,1MM(0,515749IN)
961	01174298				2	ST		Ball bearing	Ball bearing	
962	01174298				2	ST		Ball bearing	Ball bearing	