



Spare Parts Catalog

Engine type: TBD16 234V
Serial number: 23416001391
Output: 755 kW
Speed: 2200 1/min

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

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

CG	ETL-No.	Designation (en)	Designation (en)
1		Crankcase	
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
2		Oil pan	
2	0509 1500	Oil pan	Oil pan
5		Crankshaft	
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
6		Connecting rod	
6	0509 0600	Connecting rod	Connecting rod
7		Piston	
7	0509 0599	Piston	Piston
8		Cylinder head	
8	0509 0488	Cylinder head	Cylinder head
8	0509 0640	Valve mechan.cover	Valve mechan.cover
10		Camshaft	
10	0509 1462	Camshaft	Camshaft
10	0509 1507	Tacho drive	Tacho drive
11		Timing gears	
11	0509 0596	Valve drive	Valve drive
11	0509 0597	Pushrod	Pushrod
14		Lube oil pump	
14	0509 1478	Lubricat. oil pump	Lubricat. oil pump
15		Lube oil/-cooler	
15	0509 1488	Oil cooler	Oil cooler
15	0509 1527	Lubric. oil filter	Lubric. oil filter
16		Oil pipes	
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
17		Injection pump	
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

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

CG	ETL-No.	Designation (en)	Designation (en)
18		Injection pump drive	
18	0509 0643	Inject. pump drive	Inject. pump drive
19		Injector	
19	0509 0642	Fuel injector	Fuel injector
20		Fuel filter	
20	0509 0635	Fuel duplex filter	Fuel duplex filter
20	0509 4528	Fuel filter assy	Fuel filter assy
21		Fuel pipes/fuel tank	
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
22		Suction pipe/air cleaner	
22	0509 1489	Intake manifold	Intake manifold
22	0509 4612	Air filter	Air filter
27		Speed control	
27	0509 1535	Speed adjustment	Speed adjustment
36		Water cooler	
36	0509 4466	Heat exchanger	Heat exchanger
37		Cooling water pump	
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
38		Water pipes	
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
39		Cooling air blower	
39	0506 1124	Set narrow v-belts	Set narrow v-belts
41		Exhaust manifold	
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
43		Turbocharger	
43	0509 4509	Turbocharger	Turbocharger
43	0509 4519	Turbocharging assy	Turbocharging assy
43	0509 5689	Turbocharging assy	Turbocharging assy
44		Alternator/starter motor	
44	0509 2309	Starter motor	Starter motor
46		Engine mounting, rigid	
46	0509 1345	Silentbloc	Silentbloc
48		Electrical accessories	
48	0502 6307	Temper.transmitter	Temper.transmitter

Equipment:	23416001391	Engine type:	TBD16 234V
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ETL scope:	EU087857		

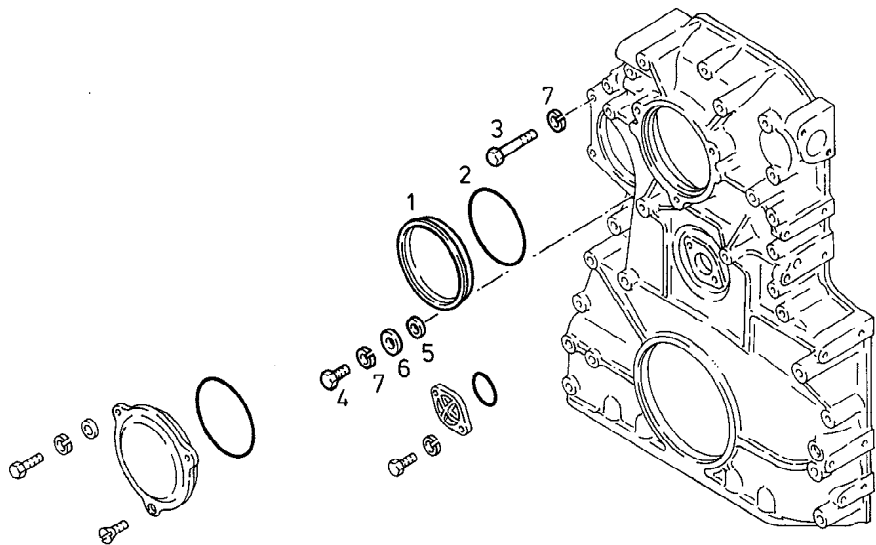
CG	ETL-No.	Designation (en)	Designation (en)
48	0503 3560	Temper.transmitter	Temper.transmitter
48	0503 3562	Temper.transmitter	Temper.transmitter
48	0506 5570	Switching device	Switching device
48	0509 1340	Temp.monitor.unit	Temp.monitor.unit
48	0509 4076	Monitoring	Monitoring
48	0509 4157	Thermocouple	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
49		Tools	
49	0508 9361	Toolkit	Toolkit
49	0509 4173	Rod	Rod
51		Measuring instruments	
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
52		Clutch	
52	0509 1663	Flywheel housing	Flywheel housing
56		Engine shutdown	
56	0509 0742	Cabling	Cabling
56	0509 1498	Solenoid	Solenoid
56	0509 4416	Solenoid valv	Solenoid valv
57		V-belt guard	
57	0509 1523	V-belt guard	V-belt guard
58		Intercooler	
58	0509 0674	Charge air cooler	Charge air cooler
90		Set of parts	
90	0509 2283	Gasket set	Gasket set
90	0509 2287	Gasket set	Gasket set
90	0509 4379	Accessories	Accessories

ETL no.: 0509 0676 Blanking parts

Constr. Group: 01

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

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



0509 0676

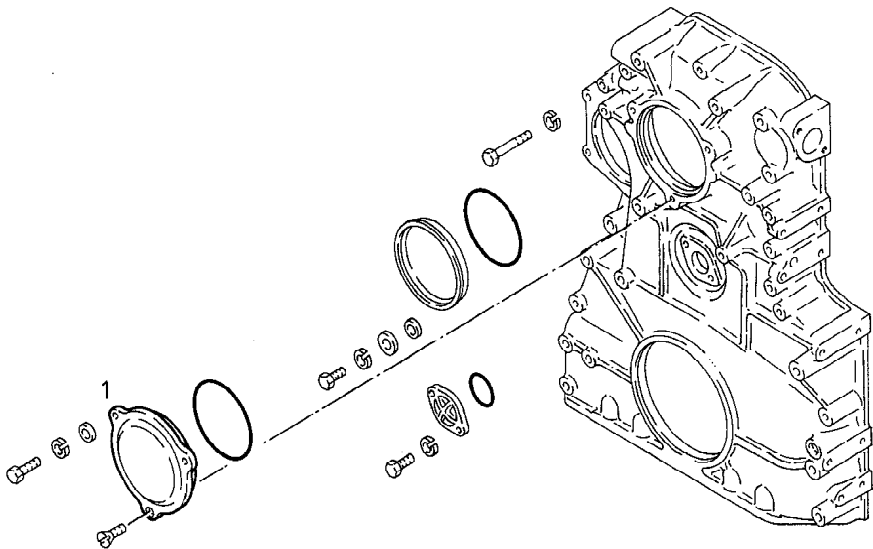
Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12162555	Kit ?			1	ST		Cover	Cover	MWM-NR. 6.232.0.976.003 .4
2	01166130	Kit ?	20	20	1	ST		O-seal	O-seal	MWM-NR. 6.0493.10.4.100 3
3	01111166	Kit ?			2	ST		Hexagon bolt	Hexagon bolt	MWM-NR. 6.0200.01.0.086 0
4	01137083	Kit ?	20	20	2	ST		Hexagon bolt	Hexagon bolt	MWM-NR. 6.0200.05.0.082 0
5	12161062	Kit ?			2	ST		Plain washer	Plain washer	MWM-NR. 6.232.0.340.029 .4
6	12164637	Kit ?			2	ST		Plain washer	Plain washer	MWM-NR. 6.305.0.340.010 .4
7	01177981	Kit ?			4	ST		Spring lock washer	Spring lock washer	MWM-NR. 6.0216.01.0.008 0

ETL no.: 0509 0678 Cover

Constr. Group: 01

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

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



0509 0678

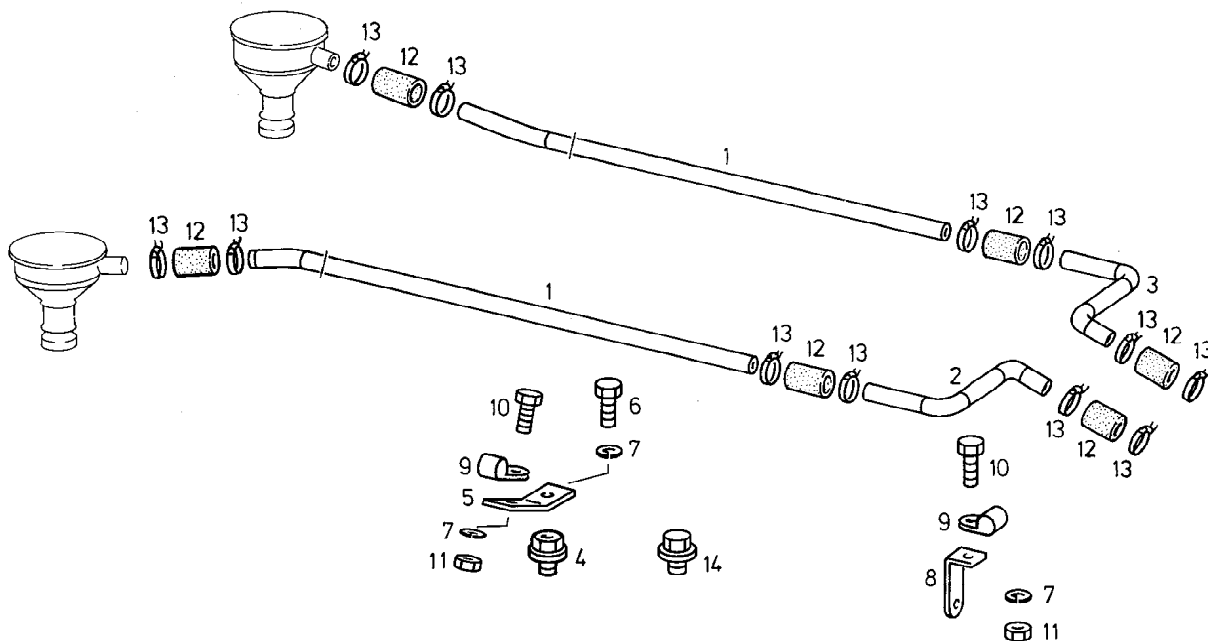
Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12163429	Kit ?		1	ST		Cover	Cover	MWM-NR. 6.234.0.787.009 .4

ETL no.: 0509 1291 Crankcase breather

Constr. Group: 01

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

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



0509 1291

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12200445	Kit ?	AW	2	ST			Breather pipe	Breather pipe	MWM-NR. 6.234.0.942.288 .4
2	12200446	Kit ?	AW	1	ST			Breather pipe	Breather pipe	MWM-NR. 6.234.0.942.289 .4
3	12200447	Kit ?	AW	1	ST			Breather pipe	Breather pipe	MWM-NR. 6.234.0.942.290 .4
4	12163217	Kit ?		6	ST			Screw plug	Screw plug	MWM-NR. 6.234.0.352.001 .4
5	12200448	Kit ?	AW	6	ST			Connecting plate	Connecting plate	MWM-NR. 6.234.0.650.084 .4
6	01103316	Kit ?	20	20	6	ST		Hexagon bolt	Hexagon bolt	MWM-NR. 6.0200.05.0.061 5
7	01177981	Kit ?		14	ST			Spring lock washer	Spring lock washer	MWM-NR. 6.0216.01.0.008 0
8	12200449	Kit ?	AW	2	ST			Connecting plate	Connecting plate	MWM-NR. 6.234.0.650.085 .4
9	01173053	Kit ?		8	ST			Pipe clamp	Pipe clamp	MWM-NR. 6.0402.10.7.252 0
10	01112333	Kit ?	20	20	8	ST		Hexagon bolt	Hexagon bolt	MWM-NR. 6.0200.05.0.082 5
11	01122477	Kit ?	20	20	8	ST		Hexagon nut	Hexagon nut	MWM-NR. 6.0210.05.4.008 0
12	12163475	Kit ?		6	ST			Tubing connection	Tubing connection	MWM-NR. 6.234.0.861.010

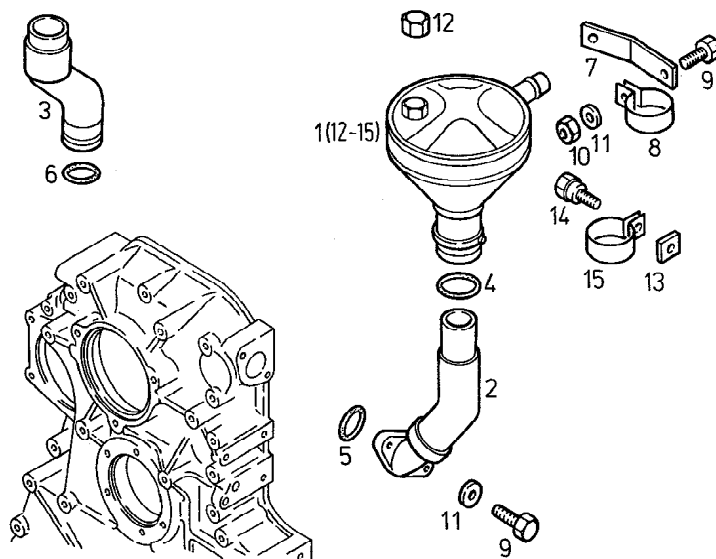
Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
13	01177986	Kit ?		12	ST		Hose clip	Hose clip	.4 MWM-NR. 6.0401.53.0.022 0
14	01110445	Kit ?		6	ST		Screw plug	Screw plug	MWM-NR. 6.0206.04.2.001 2

ETL no.: 0509 1480 Crankcase breather

Constr. Group: 01

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

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



0509 1480

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12152872	Kit ?	20	20	2	ST		Oil separator	Oil separator	WITH ITEM.... 12-15 MWM-NR. 6.0525.62.2.001
2	12190076	Kit ?		AW	1	ST		Tube	Tube	MWM-NR. 6.234.0.942.261
3	12163793	Kit ?			1	ST		Tube	Tube	.5 MWM-NR. 6.234.0.942.157
4	06214824	Kit ?			2	ST		O-seal	O-seal	.5 MWM-NR. 6.0493.12.8.038
5	01161340	Kit ?	90	90	1	ST		O-seal	O-seal	3 MWM-NR. 6.0493.10.4.040
6	01153878	Kit ?			2	ST		O-seal	O-seal	4 MWM-NR. 6.0493.13.0.300
7	12163342	Kit ?			2	ST		Connecting plate	Connecting plate	1 MWM-NR. 6.234.0.650.006
8	12151725	Kit ?			2	ST		Pipe clamp	Pipe clamp	.4 MWM-NR. 6.0402.10.1.382
9	01112333	Kit ?	20	20	4	ST		Hexagon bolt	Hexagon bolt	0 MWM-NR. 6.0200.05.0.082
10	01122477	Kit ?	20	20	2	ST		Hexagon nut	Hexagon nut	5 MWM-NR. 6.0210.05.4.008
11	01177981	Kit ?			4	ST		Spring lock washer	Spring lock washer	0 MWM-NR. 6.0216.01.0.008

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

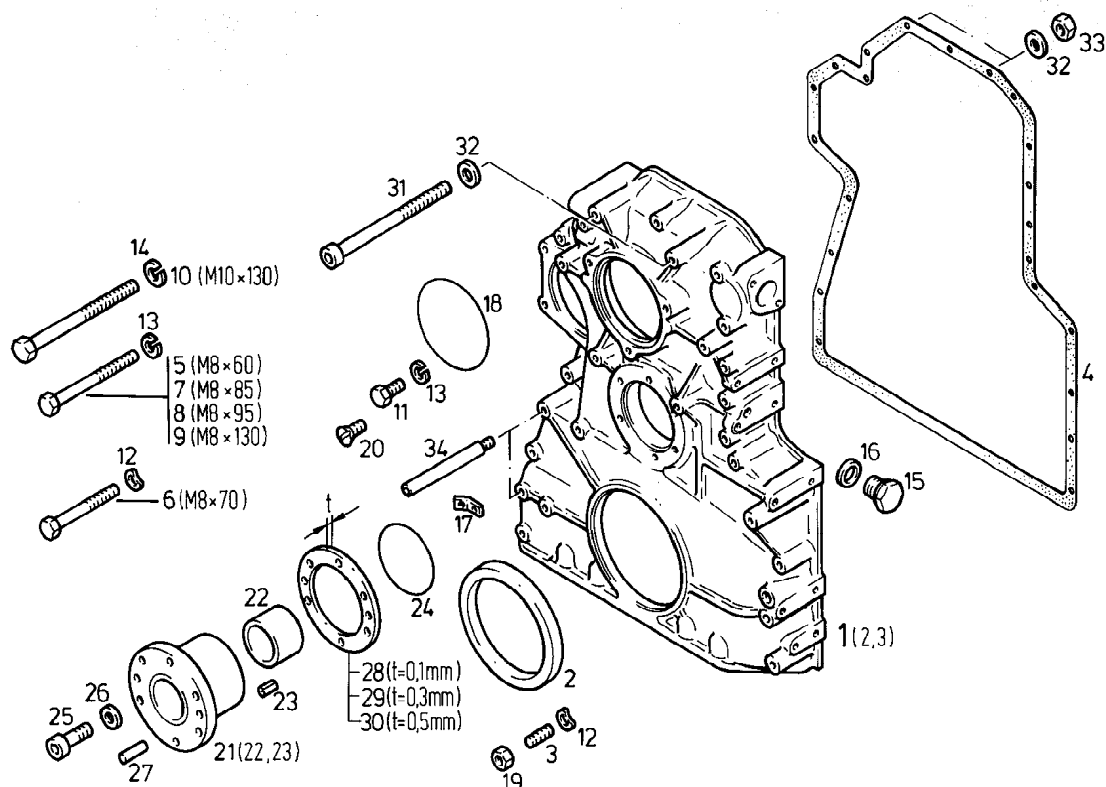
Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
12	12155461	Kit ?	20	20	1	ST		Cap	Cap	0 MWM-NR. 6.0690.36.1.134
13	01152840	Kit ?			1	ST		Square nut	Square nut	6 MWM-NR. 6.0211.04.0.000
14	12156940	Kit ?	90	90	1	ST		Acorn hex. hd bolt	Acorn hex. hd bolt	6 MWM-NR. 6.0690.74.2.410
15	12156344	Kit ?	20	20	1	ST		Pipe clamp	Pipe clamp	1 MWM-NR. 6.0690.65.4.161

ETL no.: 0509 1482 Crankc. end cover

Constr. Group: 01

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

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



0509 1482

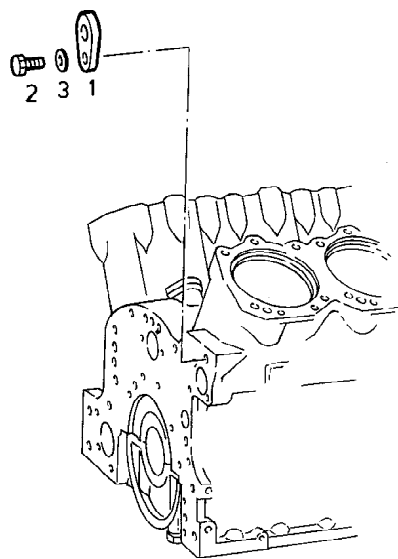
Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12200626	Kit ?			1	ST		Crankc. end cover	Crankc. end cover	WITH ITEM.... 2,3 MWM-NR. 6.234.0.780.006
2	12152293	Kit ?	90	90	1	ST		Rot.shaft lip seal	Rot.shaft lip seal	.6 MWM-NR. 6.0496.12.9.145
3	01151604	Kit ?	90	90	2	ST		Stud	Stud	1 MWM-NR. 6.0201.10.0.082
4	12161804	Kit ?			1	ST		Gasket	Gasket	0 MWM-NR. 6.232.0.853.009
5	01111166	Kit ?			1	ST		Hexagon bolt	Hexagon bolt	.4 MWM-NR. 6.0200.01.0.086
6	01111177	Kit ?			1	ST		Hexagon bolt	Hexagon bolt	0 MWM-NR. 6.0200.01.0.087
7	01111195	Kit ?			3	ST		Hexagon bolt	Hexagon bolt	0 MWM-NR. 6.0200.01.0.088
8	01111203	Kit ?	20	20	6	ST		Hexagon bolt	Hexagon bolt	5 MWM-NR. 6.0200.01.0.089
9	01151538	Kit ?			1	ST		Hexagon bolt	Hexagon bolt	5 MWM-NR. 6.0200.01.1.081
10	01111372	Kit ?			2	ST		Hexagon bolt	Hexagon bolt	3 MWM-NR. 6.0200.01.1.101
11	01137083	Kit ?	20	20	2	ST		Hexagon bolt	Hexagon bolt	3 MWM-NR. 6.0200.05.0.082

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

Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
12	01107283	Kit ?		5	ST		Spring washer	Spring washer	MWM-NR. 6.0216.03.1.008 0
13	01177981	Kit ?		12	ST		Spring lock washer	Spring lock washer	MWM-NR. 6.0216.01.0.008 0
14	01178365	Kit ?		2	ST		Spring lock washer	Spring lock washer	MWM-NR. 6.0216.01.0.010 0
15	01100940	Kit ?		1	ST		Screw plug	Screw plug	MWM-NR. 6.0206.05.0.141 5
16	01118688	Kit ?		1	ST		Sealing ring	Sealing ring	MWM-NR. 6.0492.01.0.141 8
17	12161547	Kit ?		1	ST		Connecting plate	Connecting plate	MWM-NR. 6.232.0.650.049 .4
18	01153947	Kit ?		1	ST		O-seal	O-seal	MWM-NR. 6.0493.10.4.124 3
19	01122477	Kit ?	20 20	2	ST		Hexagon nut	Hexagon nut	MWM-NR. 6.0210.05.4.008 0
20	01132357	Kit ?		1	ST		C.sunk head screw	C.sunk head screw	
21	12163258	Kit ?	90 90	1	ST		Bearing housing	Bearing housing	WITH ITEM.... 22,23 MWM_NR. 6.234.0.420.001 .5
22	12200055	Kit ?		1	ST		Bearing bush	Bearing bush	MWM-NR. 6.234.0.432.003 .4
23	01125638	Kit ?		2	ST		Straight pin	Straight pin	MWM-NR. 6.0220.15.0.061 0
24	01153853	Kit ?	90 90	1	ST		O-seal	O-seal	MWM-NR. 6.0493.10.4.090 5
25	01110659	Kit ?		6	ST		Cheese head screw	Cheese head screw	MWM-NR. 6.0200.70.0.103 0
26	01154439	Kit ?		6	ST		Plain washer	Plain washer	MWM-NR. 6.0215.06.1.105 1
27	01105158	Kit ?		2	ST		Parallel pin	Parallel pin	MWM-NR. 6.0220.10.0.082 4
28	12163847	Kit ?		2	ST		Shim	Shim	MWM-NR. 6.234.0.974.030 .4
29	12163848	Kit ?		2	ST		Shim	Shim	MWM-NR. 6.234.0.974.031 .4
30	12163849	Kit ?		2	ST		Shim	Shim	MWM-NR. 6.234.0.974.032 .4
31	01152868	Kit ?		2	ST		Cheese head screw	Cheese head screw	MWM-NR. 6.0200.70.1.121 6
32	01154440	Kit ?		4	ST		Plain washer	Plain washer	MWM-NR. 6.0215.06.1.125 1
33	01125801	Kit ?	20 20	2	ST		Hexagon nut	Hexagon nut	MWM-NR. 6.0210.05.4.012 0
34	12190239	Kit ?		2	ST		Screw fitting	Screw fitting	MWM-NR. 6.234.0.355.028 .4

ETL no.: 0509 1495 Engine mounting Constr. Group: 01

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



0509 1495

Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12190233	Kit ?	AW 1	ST			Bracket	Bracket	MWM-NR. 6.234.0.637.021 .4
2	01112723	Kit ?		2	ST		Hexagon bolt	Hexagon bolt	MWM-NR.6.0200.05.0.2040
3	01152758	Kit ?		2	ST		Plain washer	Plain washer	MWM-NR.6.0215.01.2.0210

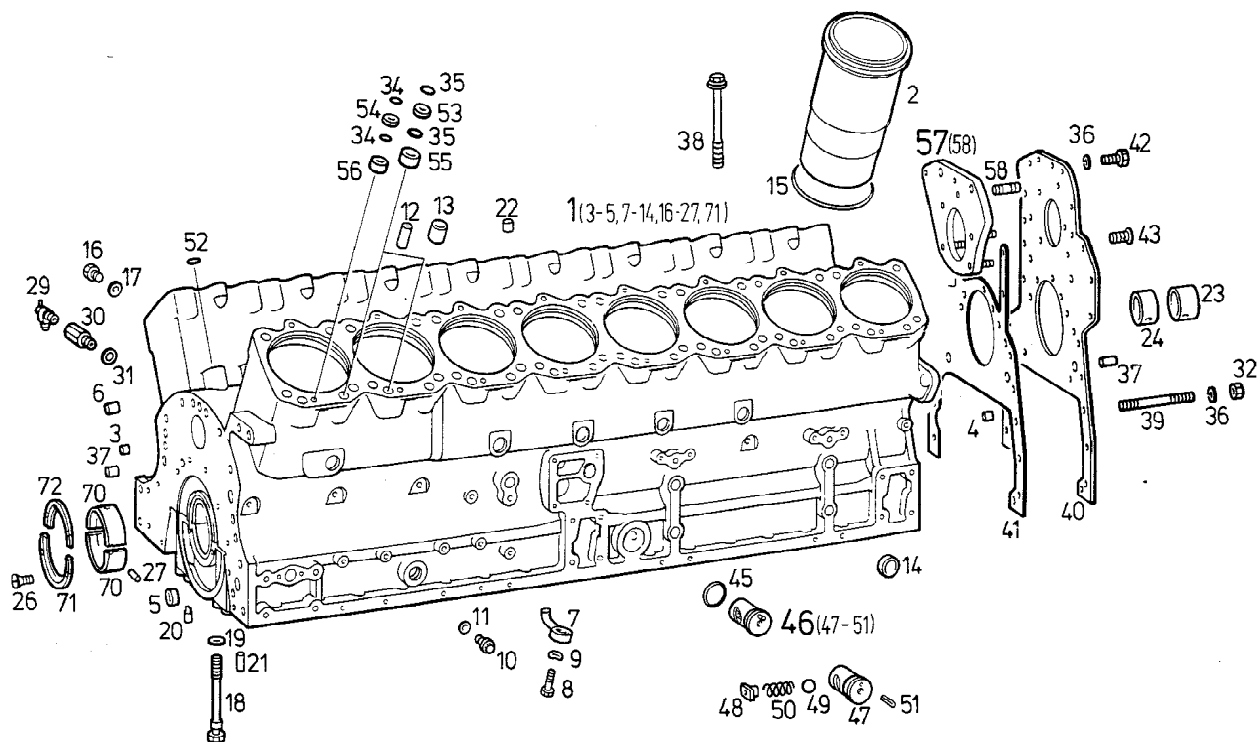
ETL no.: 0509 1496 Crankcase

Constr. Group: 01

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

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

2



0509 1496

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

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

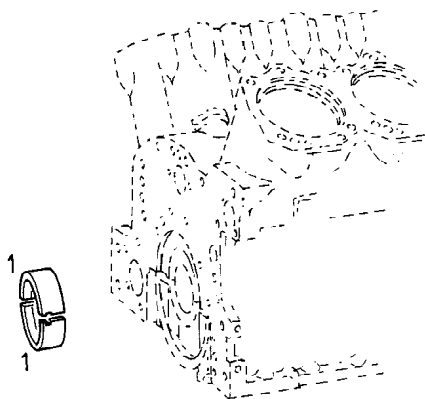
Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
23	12190961	Kit ?			2	ST		Bearing bush	Bearing bush	
24	12200055	Kit ?			7	ST		Bearing bush	Bearing bush	
26	01153049	Kit ?			4	ST		C.sunk head screw	C.sunk head screw	
27	01115413	Kit ?			9	ST		Straight pin	Straight pin	
29	12188643	Kit ?			1	ST		Drain valve	Drain valve	
30	12161138	Kit ?			1	ST		Screw connector	Screw connector	
31	01118688	Kit ?			1	ST		Sealing ring	Sealing ring	
32	01122477	Kit ?	20	20	4	ST		Hexagon nut	Hexagon nut	
34	01153858	Kit ?			64	ST		O-seal	O-seal	
35	01153866	Kit ?			64	ST		O-seal	O-seal	
36	01177981	Kit ?			12	ST		Spring lock washer	Spring lock washer	
37	01105181	Kit ?			2	ST		Parallel pin	Parallel pin	
38	12163212	Kit ?			64	ST		Hexagon bolt	Hexagon bolt	
39	01152531	Kit ?	90	90	4	ST		Stud	Stud	
40	12163437	Kit ?			1	ST		Cover plate	Cover plate	
41	12161809	Kit ?			1	ST		Gasket	Gasket	
42	01137083	Kit ?	20	20	8	ST		Hexagon bolt	Hexagon bolt	
43	01132357	Kit ?			1	ST		C.sunk head screw	C.sunk head screw	
45	01153881	Kit ?	20	20	1	ST		O-seal	O-seal	
46	12163418	Kit ?			1	ST		Overflow valve	Overflow valve	
47	12163209	Kit ?			1	ST		Valve insert	Valve insert	
48	12163202	Kit ?			1	ST		Spring cap	Spring cap	
49	01116971	Kit ?			1	ST		Ball	Ball	
50	01221435	Kit ?			1	ST		Compression spring	Compression spring	
51	01154162	Kit ?			1	ST		Straight pin	Straight pin	
52	01166002	Kit ?			32	ST		O-seal	O-seal	
53	12163186	Kit ?			32	ST		Plain washer	Plain washer	
54	12163187	Kit ?			32	ST		Plain washer	Plain washer	
55	12163166	Kit ?			32	ST		Sleeve	Sleeve	
56	12163167	Kit ?			16	ST		Sleeve	Sleeve	
57	12188464	Kit ?		AW	1	ST		Plate	Plate	
58	01103331	Kit ?			5	ST		Stud	Stud	
59	01115486	Kit ?			2	ST		Straight pin	Straight pin	
60	01115451	Kit ?			2	ST		Straight pin	Straight pin	
70	12163259	Kit ?			9	ST		Main bearing	Main bearing	FOR SINGLE PARTS SEE PN -LIST SHEET E0120-01-0509 4645
71	12163177	Kit ?			2	ST		Half-ring	Half-ring	
72	12163178	Kit ?			2	ST		Half-ring	Half-ring	STANDARD (A)MM, FOR OVE RSIZE SEE ITEM (B) (A) = 5,69 MM RD (B) = 954
954	12200054	Kit ?			1	ST		Half-ring	Half-ring	OVERSIZE 6,20 MM RD

ETL no.: 0509 4645 Main bearing

Constr. Group: 01

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

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



0509 4645

Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12163259	Kit ?		1	ST		Main bearing	Main bearing	STANDARD (A)MM RD, FOR UNDERSIZE SEE ITEM (B) (A) = 105 MM RD (B) = 950 - 953
950	12163900	Kit ?		1	ST		Main bearing	Main bearing	1ST UNDERSIZE 104,692 - 104,714 MM RD
951	12163901	Kit ?		1	ST		Main bearing	Main bearing	2ND UNDERSIZE 104,442 - 104,464 MM RD
952	12163902	Kit ?		1	ST		Main bearing	Main bearing	3RD UNDERSIZE 104,192 - 104,214 MM RD
953	12163903	Kit ?		1	ST		Main bearing	Main bearing	4TH UNDERSIZE 103,942 - 103,964 MM RD

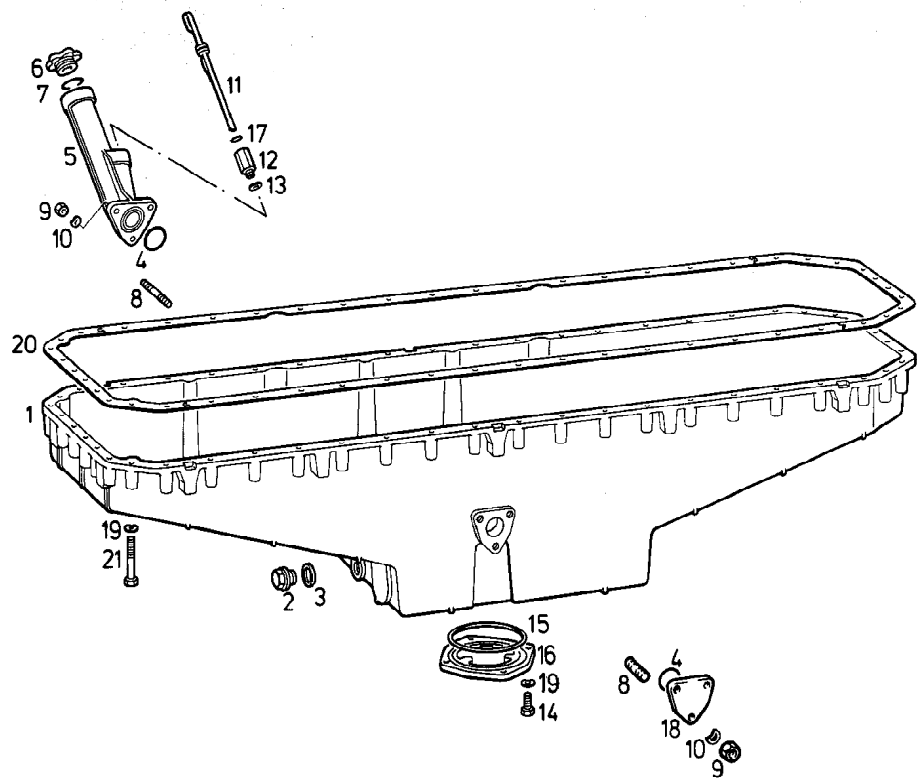
ETL no.: 0509 1500 Oil pan

Constr. Group: 02

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

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

1



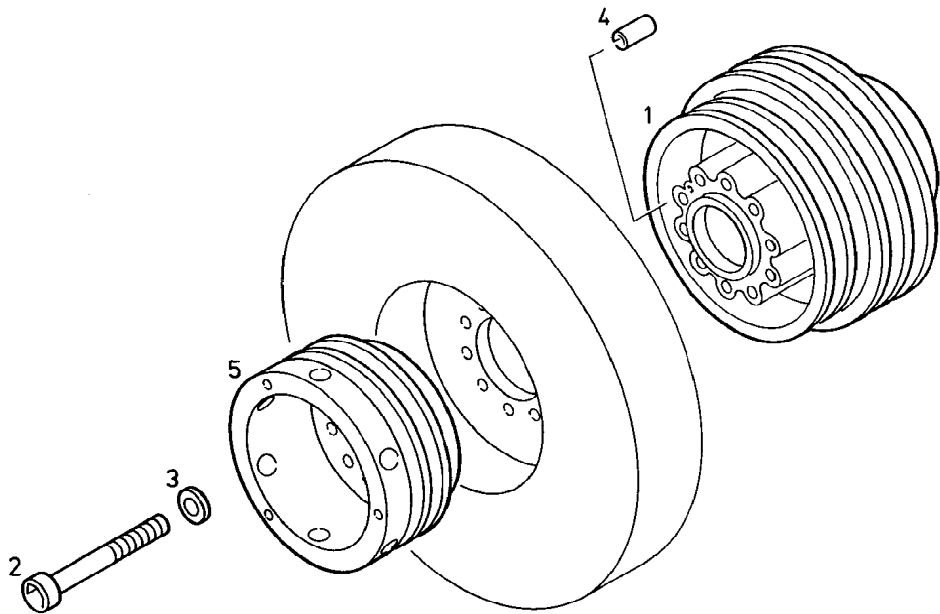
0509 1500

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12163107	Kit ?	AW	1	ST			Oil pan	Oil pan	MWM-NR. 6.234.0.115.008 .5
2	01118971	Kit ?		2	ST			Screw plug	Screw plug	MWM-NR. 6.0206.05.0.181 5
3	01118718	Kit ?		2	ST			Sealing ring	Sealing ring	MWM-NR. 6.0492.01.0.182 4
4	01166062	Kit ?		2	ST			O-seal	O-seal	MWM-NR. 6.0493.10.6.040 4
5	12161705	Kit ?		1	ST			Oil filler neck	Oil filler neck	MWM-NR. 6.232.0.743.004 .5
6	12165572	Kit ?		1	ST			Screw plug	Screw plug	MWM-NR. 6.321.1.352.005 .4
7	06214722	Kit ?	90	90	1	ST		O-seal	O-seal	MWM-NR. 6.0493.10.0.032 4
8	01151396	Kit ?		6	ST			Stud	Stud	MWM-NR. 6.0201.20.0.082 5
9	01122477	Kit ?	20	20	6	ST		Hexagon nut	Hexagon nut	MWM-NR. 6.0210.05.4.008 0
10	01107283	Kit ?		7	ST			Spring washer	Spring washer	MWM-NR. 6.0216.03.1.008 0
11	12190185	Kit ?	AW	1	ST			Dipstick	Dipstick	MWM-NR. 6.234.0.329.008 .5
12	12161139	Kit ?		1	ST			Screw fitting	Screw fitting	MWM-NR. 6.232.0.355.016

[illegible]

ETL no.: 0509 1265 V-grooved pulley Constr. Group: 05

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



0509 1265

Item	Material	Kit	MS VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12200411	Kit ?	AO	1	ST		V-grooved pulley	V-grooved pulley	MWM-NR. 6.234.0.381.018 .4
2	01154902	Kit ?		10	ST		Cheese head screw	Cheese head screw	MWM-NR. 6.0200.70.5.161 8
3	12166175	Kit ?		10	ST		Plain washer	Plain washer	MWM-NR. 6.324.0.340.038 .4
4	01101334	Kit ?		2	ST		Straight pin	Straight pin	MWM-NR. 6.0220.15.0.061 4
5	12189443	Kit ?		1	ST		V-grooved pulley	V-grooved pulley	MWM-NR. 6.234.0.381.020 .4