

Equipment information

Equipment: 00002205110
Type: TBD16 616V
Output: 0000876,0 kW
Speed: 1500 1/min
Build date: 23.06.2004
KLU-Number:
ETL scope: EU519004
MVS: 211

VKU date: 19.07.2004

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: 2

Assembly group directory

Equipment:	00002205110	Engine type:	TBD16 616V
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ETL scope:	EU519004		

CG	ETL-No.	Designation (en)	Designation (en)
1		Crankcase	
1	0509 4789	Crankcase	Crankcase
1	0509 4815	Locating bearing	Locating bearing
1	0509 5358	Main bearing	Main bearing
1	0509 6577	Engine mounting	Engine mounting
1	0509 6614	Crankcase breather	Crankcase breather
2		Oil pan	
2	0509 5498	Oil filler neck	Oil filler neck
2	0509 6439	Oil pan	Oil pan
5		Crankshaft	
5	0509 6189	Flywheel	Flywheel
5	0509 6433	Crankshaft	Crankshaft
6		Connecting rod	
6	0509 6323	Connecting rod	Connecting rod
6	0509 6411	Big end bearing	Big end bearing
7		Piston	
7	0509 6407	Piston	Piston
8		Cylinder head	
8	0509 5122	Valve mechan.cover	Valve mechan.cover
8	0509 6123	Cylinder head	Cylinder head
9		Timing chest	
9	0509 4842	Axle	Axle
9	0509 4844	Cover	Cover
9	0509 4845	Cover	Cover
9	0509 4847	Gearcase	Gearcase
9	0509 5477	Crankc. end cover	Crankc. end cover
10		Camshaft	
10	0509 6448	Camshaft	Camshaft
11		Timing gears	
11	0509 4979	Valve drive	Valve drive
11	0509 6458	Actuat. mechanism	Actuat. mechanism
14		Lube oil pump	
14	0509 6249	Gear.oil feed pump	Gear.oil feed pump
15		Lube oil/-cooler	
15	0509 4790	Lubric. oil filter	Lubric. oil filter
15	0509 6127	Oil cooler	Oil cooler
16		Oil pipes	
16	0509 5286	Oil suction line	Oil suction line
16	0509 6177	Lubricat. oil line	Lubricat. oil line
16	0509 6510	Oil centrifuge	Oil centrifuge
17		Injection pump	
17	0509 5096	Fastenings	Fastenings
17	0509 6133	Solenoid valve	Solenoid valve
17	0509 6609	Parts inject.pump	Parts inject.pump
18		Injection pump drive	
18	0509 4817	Inject. pump drive	Inject. pump drive
19		Injector	
19	0509 6025	Fuel injector	Fuel injector

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20		Fuel filter	
20	0509 6440	Fuel filter/pipe	Fuel filter/pipe
21		Fuel pipes/fuel tank	
21	0509 4894	High pressure pipe	High pressure pipe
21	0509 5063	Pipe/line/lead	Pipe/line/lead
21	0509 6179	Fuel line	Fuel line
21	0509 6594	Hose assembly	Hose assembly
22		Suction pipe/air cleaner	
22	0509 6464	Intake manifold	Intake manifold
27		Speed control	
27	0509 6488	Control unit	Control unit
34		Vibration damper	
34	0509 6273	Tors.vibrat.damper	Tors.vibrat.damper
37		Cooling water pump	
37	0509 5053	Idler gear	Idler gear
37	0509 6118	Centrifugal pump	Centrifugal pump
38		Water pipes	
38	0509 6208	Coolant pipe	Coolant pipe
38	0509 6615	Coolant pipe	Coolant pipe
41		Exhaust manifold	
41	0509 4697	Compensator	Compensator
41	0509 6178	Exhaust pipe	Exhaust pipe
41	0509 6390	Exhaust gas bend	Exhaust gas bend
43		Turbocharger	
43	0509 6256	Turbocharging assy	Turbocharging assy
43	0509 6361	Turbocharger	Turbocharger
43	0509 6456	Insulation	Insulation
44		Alternator/starter motor	
44	0500 3725	Protecting cap	Protecting cap
44	0503 2662	Narrow v-belt	Narrow v-belt
44	0507 1230	Generator	Generator
44	0509 4210	Starter	Starter
44	0509 5562	Parts start.motor	Parts start.motor
44	0509 5603	Driving parts	Driving parts
46		Engine mounting, rigid	
46	0509 6389	Engine mounting	Engine mounting
48		Electrical accessories	
48	0506 7113	Connecting pipe	Connecting pipe
48	0507 2493	Plug-in connector	Plug-in connector
48	0507 2513	Plug-in connector	Plug-in connector
48	0508 2247	Rectifier	Rectifier
48	0509 2938	Terminal box	Terminal box
48	0509 6490	Sensor	Sensor
48	0509 6506	Cabling	Cabling
48	0509 6540	Cable harness	Cable harness
51		Measuring instruments	
51	0507 0219	Temper.transmitter	Temper.transmitter
52		Clutch	
52	0509 6196	Flywheel housing	Flywheel housing

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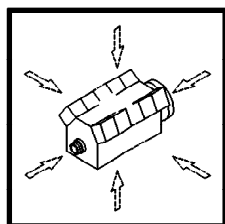
CG	ETL-No.	Designation (en)	Designation (en)
57		V-belt guard	
57	0509 6199	V-belt guard	V-belt guard
63		Starting aid	
63	0509 6554	Starting aid	Starting aid
87		Charge air pipe	
87	0509 5628	Mating part	Mating part
87	0509 6616	Intake elbow	Intake elbow
87	0509 6623	Air guide housing	Air guide housing
90		Set of parts	
90	0509 5371	Gasket set	Gasket set
90	0509 5587	Gasket set	Gasket set
90	0509 6534	Gasket set	Gasket set

ETL no.: 0509 4789 Crankcase

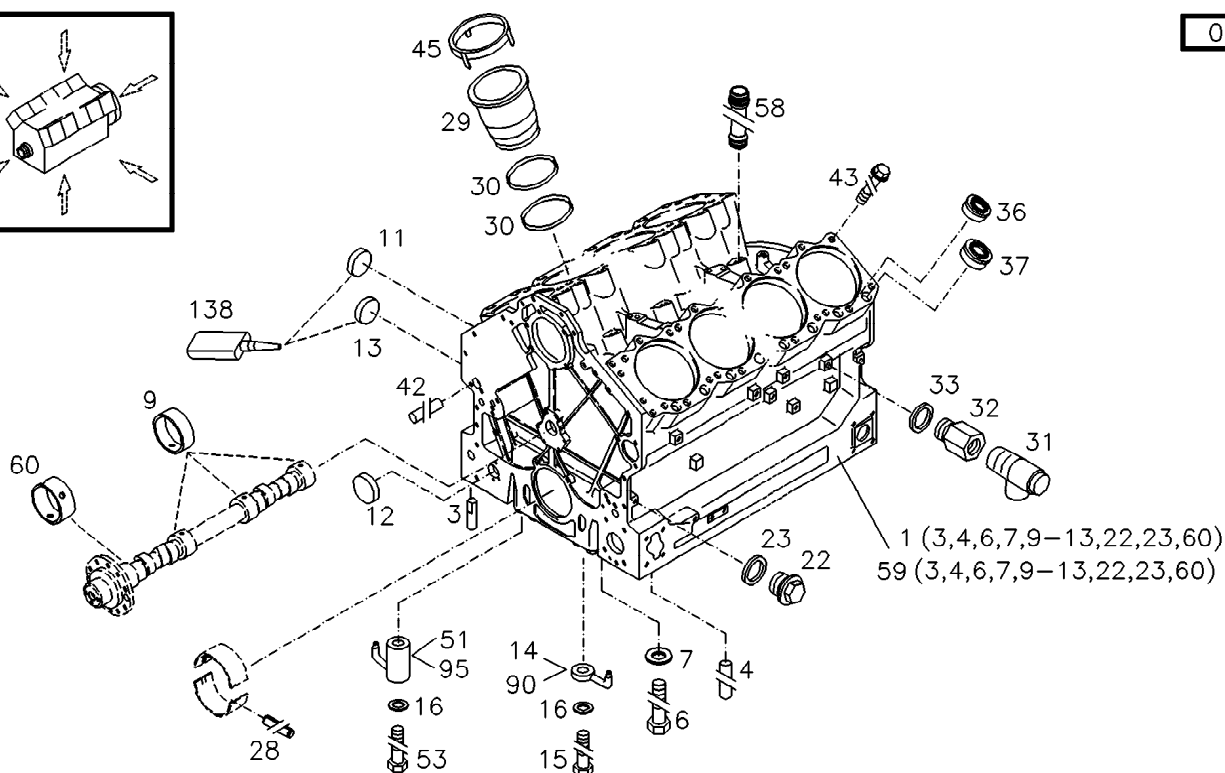
Constr. Group: 01

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0509 4789

Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12277265		90	90	1	ST		Crankcase	Crankcase	WITH ITEM.... (3,4,6,7,9-13,22,23,60) MIT KLASSE-ABNAHME
3	12160931				9	ST		Pin	Pin	
4	12160932				9	ST		Pin	Pin	
6	01153796	Kit !			36	ST		Hexagon bolt	Hexagon bolt	
7	01154443	Kit !		70	36	ST		Plain washer	Plain washer	
9	12200055	Kit !			8	ST		Bearing bush	Bearing bush	
11	01144676				18	ST		Cover	Cover	
12	01152717				1	ST		Cover	Cover	
13	01152710				3	ST		Cover	Cover	
14	12277184	Kit !			8	ST		Nozzle	Nozzle	FÜR ALLE MOTOR-NR. ... BIS AUF SIEHE POS.: 90 FOR ALL ENGINE SER. NOS
										EXCEPT FOR ITEM : 90 POUR TOUS LES N. MOTEUR JUSQU'A VOIR POSTE : 90 PARA TODOS LOS NOS. DE MOTOR, MENOS VER POS : 90
15	01111151	Kit !	20	20	8	ST		Hexagon bolt	Hexagon bolt	
16	01107281	Kit !	10	10	16	ST		Spring washer	Spring washer	

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Constr. Group: 01

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
22	01118955				2	ST		Screw plug	Screw plug	
23	01118681				2	ST		Sealing ring	Sealing ring	
28	01115413				9	ST		Straight pin	Straight pin	
29	12275301	Kit !			16	ST		Cylinder liner	Cylinder liner	
30	01153816	Kit !	10	10	32	ST		O-seal	O-seal	
31	12188643				1	ST		Drain valve	Drain valve	
32	12161138				1	ST		Screw connector	Screw connector	
33	01118688	Kit !			1	ST		Sealing ring	Sealing ring	
36	12313401	Kit !			32	ST		Gasket	Gasket	
37	12313400	Kit !			32	ST		Gasket	Gasket	
42	01105181	Kit !			4	ST		Parallel pin	Parallel pin	
43	12163212	Kit !			64	ST		Hexagon bolt	Hexagon bolt	
45	12275302	Kit !			16	ST		Sealing ring	Sealing ring	
51	12312130	Kit !			8	ST		Nozzle	Nozzle	FÜR ALLE MOTOR-NR. ... BIS AUF SIEHE POS.: 95 FOR ALL ENGINESER. NOS. EXCEPT FOR ITEM : 95 POUR TOUS LES N. MOTEUR JUSQU'A VOIR POSTE : 95 PARA TODOS LOS NOS. DE MOTOR, MENOS VER POS : 95
53	01111216	Kit !			8	ST		Hexagon bolt	Hexagon bolt	
58	12276145	Kit !			32	ST		Protecting tube	Protecting tube	
59	12277751		90	90	1	ST		Crankcase	Crankcase	WITH ITEM.... (3,4,6,7,9-13,22,23,60) OHNE KLASSE-ABNAHME
60	12190961				1	ST		Bearing bush	Bearing bush	
90	12317313				8	ST		Nozzle	Nozzle	FOR ENGINE SERIAL NO. 2203382 22034 43 2203383 22034 44 2203416 22034 45 2203422 22034 49 2203423 22034 53 2203427 22034 58 2203428 22034 74 2203430 22034 75 2203434 22035 32 2203435 22035 34 2203436 22035 50 2203437 22035 51
95	12317315			AW	8	ST		Nozzle	Nozzle	FOR ENGINE SERIAL NO. 2203382 22034 43 2203383 22034

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Item	Material	Kit	MS	VS	Quant	Unit	Ord	Designation (en)	Designation (en)	Remark
										44
										2203416 22034
										45
										2203422 22034
										49
										2203423 22034
										53
										2203427 22034
										58
										2203428 22034
										74
										2203430 22034
										75
										2203434 22035
										32
										2203435 22035
										34
										2203436 22035
										50
										2203437 22035
										51
138	01004100		10		1	ST		Safety/lock.agent	Safety/lock.agent	

Materials order list

Order:

User:

Date of maintenance measure:

Customer:

Reference:

Equipment: 00002205110

Date/Time: 2021.04.22 15:06:26

EL-ID: _616D; EL-No.: 09999999

Equipment: 00002205110

Engine type: TBD16 616V

Materials for maintenance measure:

E10 -- Initial maintenance

E23 -- maintenance work as per plan

E25 -- maintenance work as per plan

E30 -- inspection

E40 -- 1st extended inspection

E50 -- 2nd extended inspection

E60 -- intermediate overhaul

E70 -- major overhaul

KT (eFHa) -- classification parts (cabotage, main engine)

KT (uFHa) -- classification parts (ocean navigation, main engine)

KT (uFHi) -- classification parts (ocean navigation, auxiliary engine)

RS Zyl.K -- repair kit cylinder head

No	Qty	Material	MS	VS	Weight	Total ..	Unit Price	Total Price	Designation	from ETL	AG	Item	Service	EL-ID	ID-No.	Quantity used
0001000	3	0111 8718			0,002	0,006			Sealing ring	0509 6439	2	3	E10	_616D	0020003	3
0002000	1	1212 8936			2,020	2,020			Lubric. oil filter	0509 4790	15	1	E10	_616D	0150024	1
0003000	3	0111 8718			0,002	0,006			Sealing ring	0509 6439	2	3	E23	_616D	0020003	3
0004000	3	0111 8718			0,002	0,006			Sealing ring	0509 6439	2	3	E25	_616D	0020003	3
0005000	1	1212 8936			2,020	2,020			Lubric. oil filter	0509 4790	15	1	E25	_616D	0150024	1
0006000	16	1231 3326			0,004	0,064			Sealing ring	0509 6025	19	7	E25	_616D	0190007	16
0007000	2	0118 1061			0,126	0,252			Fine filter	0509 6440	20	20	E25	_616D	0200011	2
0008000	2	0111 8713			0,001	0,002			Sealing ring	0509 6440	20	22	E25	_616D	0200044	2
0009000	3	0111 8647			0,001	0,003			Sealing ring	0509 6440	20	23	E25	_616D	0200045	3
0010000	3	0111 8718			0,002	0,006			Sealing ring	0509 6439	2	3	E30	_616D	0020003	3
0011000	1	1212 8936			2,020	2,020			Lubric. oil filter	0509 4790	15	1	E30	_616D	0150024	1
0012000	16	1231 3326			0,004	0,064			Sealing ring	0509 6025	19	7	E30	_616D	0190007	16
0013000	2	0118 1061			0,126	0,252			Fine filter	0509 6440	20	20	E30	_616D	0200011	2
0014000	2	0111 8713			0,001	0,002			Sealing ring	0509 6440	20	22	E30	_616D	0200044	2
0015000	3	0111 8647			0,001	0,003			Sealing ring	0509 6440	20	23	E30	_616D	0200045	3
0016000	3	0111 8718			0,002	0,006			Sealing ring	0509 6439	2	3	E40	_616D	0020003	3
0017000	16	1227 7677			0,018	0,288			Shaped packing	0509 5122	8	2	E40	_616D	0080022	16
0018000	32	0111 8654			0,001	0,032			Sealing ring	0509 5122	8	5	E40	_616D	0080024	32