

Catalogue

WÄRTSILÄ **D234**

TBD234V12 23412002221

**Document****Catalogue****Engine type**

TBD234V12

Engine no.

D23412002221

Document file no.

D22312002221

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Introduction

The Spare Parts Catalogue provides the necessary information for ordering parts.

Arrangement of Catalogue

The Spare Parts Catalogue is composed of:

- Drawings (Bild-Tafel) with item numbers (Fig. No)
- Parts lists showing the item number (Fig. No), part number, denomination and quantity per (sub-) assembly of each part.

Ordering Parts

When ordering parts please include the following information:

Installation Data:

- Engine Number (see name plate of the engine)
- Engine Type
- Name of ship or Installation

Parts Data:

- Part Number and Description
- Number of Illustration (Bild-Tafel)
- Serial (unique) Number of the Part (if available)
- Quantity of required parts

Shipment Data:

- Invoicing Address
- Forwarding Address
- Type of Shipment

The supply of spares is subject to our General Terms and Conditions for the sales of Spare Parts.

Ordering Address

The parts required should be ordered direct from Wärtsilä Netherlands B.V. or from one of the service stations, workshops and ship repair centres that form our service network in 60 countries worldwide.

Wärtsilä Netherlands B.V.
P.O. Box 10608, 8000 GB Zwolle
Office: Hanzelaan 95, 8017 JE Zwolle
The Netherlands
Tel. +31 38 425 32 53 (24 hrs)
Fax +31 38 422 35 64
service.sales.nl@wartsila.com

Assembly group directory

Equipment:	23412002221	Engine type:	TBD12 234V
Output:	0000605,0 kW	Speed:	2200 1/min
ETL scope:	EU224296		

CG	ETL-No.	Designation (en)	Designation (en)
1		Crankcase	
1	0509 0591	Crankcase	Crankcase
1	0509 0592	Crankc. end cover	Crankc. end cover
1	0509 0593	Crankc. end cover	Crankc. end cover
1	0509 0670	Crankcase breather	Crankcase breather
1	0509 0676	Blanking parts	Blanking parts
1	0509 0678	Cover	Cover
1	0509 1568	Engine mounting	Engine mounting
1	0509 1588	Breather pipe	Breather pipe
1	0509 1987	Breather pipe	Breather pipe
1	0509 4645	Main bearing	Main bearing
2		Oil pan	
2	0509 1963	Oil pan	Oil pan
5		Crankshaft	
5	0509 0641	Crankshaft	Crankshaft
5	0509 1267	V-grooved pulley	V-grooved pulley
5	0509 1280	Flywheel	Flywheel
5	0509 1429	Vibration damper	Vibration damper
5	0509 4581	Turn-over wheel	Turn-over wheel
5	0509 4692	V-grooved pulley	V-grooved pulley
6		Connecting rod	
6	0509 0600	Connecting rod	Connecting rod
7		Piston	
7	0509 0599	Piston	Piston
8		Cylinder head	
8	0509 0598	Cylinder head	Cylinder head
8	0509 0640	Valve mechan.cover	Valve mechan.cover
10		Camshaft	
10	0509 0595	Camshaft	Camshaft
10	0509 1284	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 0646	Gear.oil feed pump	Gear.oil feed pump
15		Lube oil/-cooler	
15	0509 0668	Oil cooler	Oil cooler
15	0509 1423	Lubric. oil filter	Lubric. oil filter
16		Oil pipes	
16	0509 0648	Lubricat. oil line	Lubricat. oil line
16	0509 0663	Oil suction line	Oil suction line
16	0509 1959	Lubricat. oil pump	Lubricat. oil pump
16	0509 1962	Lubricat. oil line	Lubricat. oil line
16	0509 1977	Lubricat. oil line	Lubricat. oil line
17		Injection pump	
17	0509 0644	Denture clutch	Denture clutch
17	0509 0672	Parts inject.pump	Parts inject.pump

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17	0509 1976	Hand pump	Hand pump
17	0509 4119	Fuel inject. pump	Fuel inject. pump
17	0509 4717	Parts inject.pump	Parts inject.pump
17	0509 4718	Parts of governor	Parts of governor
17	0509 4719	Parts of governor	Parts of governor
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 1697	Fuel filter assy	Fuel filter assy
21		Fuel pipes/fuel tank	
21	0509 0665	High pressure pipe	High pressure pipe
21	0509 0666	Leak off line	Leak off line
21	0509 0667	Back leak.connect.	Back leak.connect.
21	0509 1983	Hose assembly	Hose assembly
22		Suction pipe/air cleaner	
22	0503 8961	Wet air cleaner	Wet air cleaner
22	0509 1425	Intake manifold	Intake manifold
22	0509 4967	Fastenings	Fastenings
27		Speed control	
27	0509 1535	Speed adjustment	Speed adjustment
36		Water cooler	
36	0509 4461	Heat exchanger	Heat exchanger
37		Cooling water pump	
37	0509 1505	Tensioning pulley	Tensioning pulley
37	0509 1982	Centrifugal pump	Centrifugal pump
37	0509 1986	Centrifugal pump	Centrifugal pump
37	0509 4163	Tensioning pulley	Tensioning pulley
37	0509 4464	Narrow v-belt	Narrow v-belt
38		Water pipes	
38	0509 1984	Indirect cooling	Indirect cooling
38	0509 1985	Indirect cooling	Indirect cooling
38	0509 4287	Cooling water line	Cooling water line
38	0509 4656	Companion flange	Companion flange
38	0509 4693	Compensator	Compensator
41		Exhaust manifold	
41	0509 1295	Exhaust manifold	Exhaust manifold
41	0509 1499	Compensator	Compensator
41	0509 1955	Exhaust manifold	Exhaust manifold
41	0509 1966	Sheeting/panelling	Sheeting/panelling
43		Turbocharger	
43	0509 1957	Turbocharger	Turbocharger
43	0509 1965	Turbocharging assy	Turbocharging assy
44		Alternator/starter motor	
44	0500 2415	Protecting cap	Protecting cap
44	0500 3725	Protecting cap	Protecting cap

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44	0502 9341	Parts start.motor	Parts start.motor
44	0509 0375	Controller	Controller
44	0509 1497	Accessories	Accessories
44	0509 2272	Starter	Starter
44	0509 4143	Alternator	Alternator
44	0509 4212	Protection	Protection
44	0509 4505	Driving parts	Driving parts
46		Engine mounting, rigid	
46	0509 1283	Engine mounting	Engine mounting
46	0509 1349	Silentbloc	Silentbloc
48		Electrical accessories	
48	0501 5959	Incandescent lamp	Incandescent lamp
48	0502 2912	Incandescent lamp	Incandescent lamp
48	0503 1677	Incandescent lamp	Incandescent lamp
48	0508 2246	Switching device	Switching device
48	0509 1016	Incandescent lamp	Incandescent lamp
48	0509 1021	Preh.start. switch	Preh.start. switch
48	0509 1022	Pilot lamp	Pilot lamp
48	0509 1023	Ignition lock	Ignition lock
48	0509 1030	Pressure pick-up	Pressure pick-up
48	0509 1037	Temper.transmitter	Temper.transmitter
48	0509 1039	Thermostat	Thermostat
48	0509 1340	Temp.monitor.unit	Temp.monitor.unit
48	0509 1975	Monitoring	Monitoring
48	0509 2795	Terminal box	Terminal box
48	0509 2810	Cable terminal box	Cable terminal box
48	0509 4195	Thermostat	Thermostat
48	0509 4579	Bracket	Bracket
48	0509 4882	Bracket	Bracket
51		Measuring instruments	
51	0508 3428	Pressure sensor	Pressure sensor
51	0509 0712	Pressure gauge	Pressure gauge
51	0509 0977	Sensor	Sensor
51	0509 1011	Tachometer	Tachometer
51	0509 1019	Elapsed-hour meter	Elapsed-hour meter
51	0509 1031	Thermometer	Thermometer
51	0509 1036	Telethermometer	Telethermometer
51	0509 1973	Thermometer	Thermometer
51	0509 4198	Accessories	Accessories
51	0509 4199	Monitoring	Monitoring
51	0509 4694	Thermostat	Thermostat
52		Clutch	
52	0509 0647	Flywheel housing	Flywheel housing
52	0509 1315	Accessories	Accessories
56		Engine shutdown	
56	0509 0688	Connector socket	Connector socket
56	0509 1498	Solenoid	Solenoid
57		V-belt guard	
57	0509 4438	V-belt guard	V-belt guard
58		Intercooler	

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CG	ETL-No.	Designation (en)	Designation (en)
58	0509 0674	Charge air cooler	Charge air cooler
90		Set of parts	
90	0509 2282	Gasket set	Gasket set
90	0509 2287	Gasket set	Gasket set

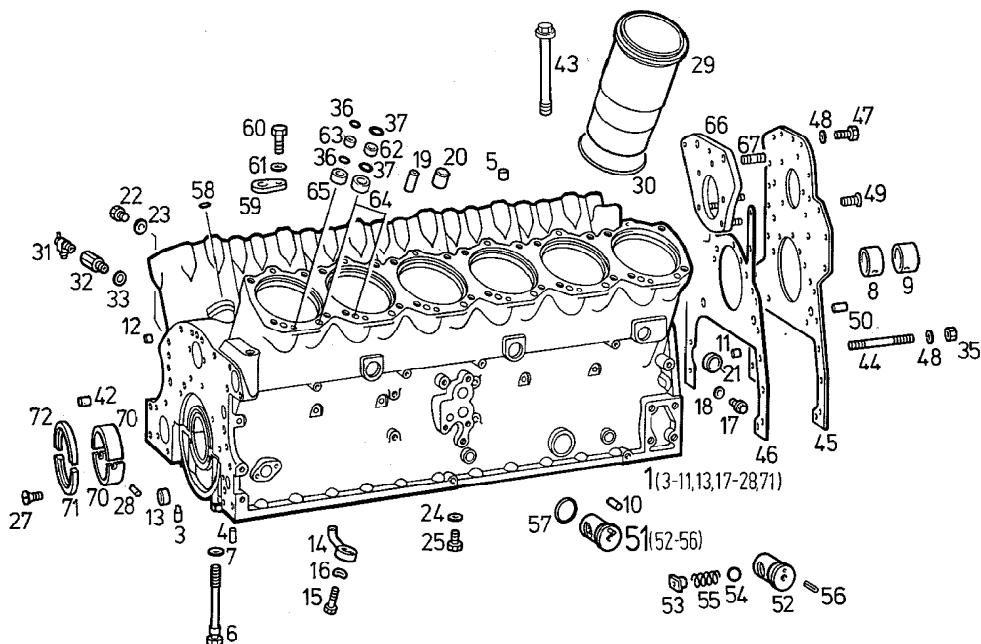
ETL no.: 0509 0591 Crankcase

Constr. Group: 01

Equipment: 2341200221
Output: 0000605,0 kW
ETL scope: EU224296

Engine type: TBD12 234V
Speed: 2200 1/min

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0509 0591

Item	Material	MS	VS	Quantity	Unit	Ord	Designation (en)	Designation (en)	Remark
1	12163892			1	ST		Engine block	Engine block	WITH ITEM.... (3-11,13,17-28,71)
3	12160931			7	ST		Pin	Pin	
4	12160932			7	ST		Pin	Pin	
5	12161005			1	ST		Bush	Bush	
6	01153796			28	ST		Hexagon bolt	Hexagon bolt	
7	01154443			28	ST		Plain washer	Plain washer	
8	12190961			2	ST		Bearing bush	Bearing bush	
9	12200055			5	ST		Bearing bush	Bearing bush	
10	12158444			8	ST		Plug	Plug	
11	12166281			4	ST		Plug	Plug	
12	12166280			4	ST		Plug	Plug	
13	01152710			5	ST		Cover	Cover	
14	12163269			12	ST		Nozzle	Nozzle	
15	01111151	20	20	12	ST		Hexagon bolt	Hexagon bolt	
16	01107283			10	ST		Spring washer	Spring washer	
17	01118952			1	ST		Screw plug	Screw plug	
18	01118664			1	ST		Sealing ring	Sealing ring	
19	12161000			24	ST		Sleeve	Sleeve	
20	12163165			24	ST		Sleeve	Sleeve	
21	01152711			6	ST		Cover	Cover	
22	01118955			1	ST		Screw plug	Screw plug	
23	01118681			1	ST		Sealing ring	Sealing ring	