

List of Spare Parts, Unrestricted Service

Spare parts are **requested** by the following Classes only: GL, KR, NK and RS, while just **recommended** by: ABS and LR, but neither requested nor recommended by: BV, CCS, DNV and RINA.

Cylinder cover, plate 2272-0300

- 1 Cylinder cover complete with fuel, exhaust and starting valves, indicator valve, cooling jacket and sealing rings (assembled)
- ½ set Studs for 1 cylinder cover

Piston and piston rod, plates 2272-0400/0420/0500

- 1 Piston complete (with cooling pipe), piston rod, piston rings and stuffing box, studs and nuts
- 1 set Piston rings for 1 cylinder

Cylinder liner, plate 2272-0600

- 1 Cylinder liner complete, including cooling jacket, non-return valves, sealing rings and gaskets (assembled)

Cylinder lubricating oil system, plates 3072-0600, 6670-0100 ¹⁾

- 1 Lubricator complete
- 1 Inductive sensor
- 1 set O-rings and seals
- 2 Lubricator backup cable

Connecting rod, and crosshead bearing, plates 1472-0300, 2572-0200

- 1 Telescopic pipe with bushing for 1 cylinder
- 1 Crankpin bearing shell (1 upper and 1 lower part) with studs and nuts
- 1 Crosshead bearing shell lower part with studs and nuts
- 2 Thrust piece

Thrust bearing, plate 2572-0600

- 1 set Thrust pads, complete FWD set for 'Ahead'
- 1 set For KR and NK also 1 set 'Astern' if different from 'Ahead'

Chain drive, plate 1472-1400

- 1 Of each type of bearings for camshaft at chain drive, chain tightener and intermediate shaft
- 6 Camshaft chain links. Only for ABS, LR and NK
- 1 Guide ring 2/2 for camshaft bearing

Hydraulic power supply, HPS, plates 4572-1000, 1472-0400, 4572-0900 and more ^{1 and 2)}

- 1 Proportional valve for hydraulic pumps
- 1 Claw coupling
- 1 Accumulator
- 6 Chain links. Only for ABS, LR, and NK
- 1 High-pressure pipe kit
- 1 set Flex pipes, one of each size. Only for S60ME-B
- 1 Electric motor

ME filter, plate 4572-0800

- 1 set Filter cartridges for redundancy filter. Cartridge filtration ability, minimum Beta₆=16. Only for filter make Kanagawa

Engine control system, plates 4772-1500/1550, 7072-0800/1100/1250 (906) ^{1 and 2)}

- 1 Multi Purpose Controller MPC
- 1 Trigger sensor for tacho system.
- 1 Marker sensor for tacho system
- 1 Tacho signal amplifier
- 1 ID-key
- 1 Encoder, steel compensator and bearing set
- 1 Fuse kit

Starting valve, plate 3472-0200

- 1 Starting valve, complete ²⁾
(Mounted in the Cylinder cover complete)
- 1 Solenoid valve ¹⁾

Hydraulic cylinder unit, plates 4572-0500/0550/0100/0900, 4272-0500 ^{1 and 2)}

- 1 Fuel booster barrel, complete with plunger
- 1 ELFI valve complete
- 1 Suction valve complete
- 1 set Membrane plus seals for accumulator, 1 set for 1 HCU
- 1 High-pressure pipe kit, one of each size and length
- 1 Packing kit (O-rings, square seals and bonded seals)
- 1 Exhaust actuator complete
- 1 High pressure pipe for timing unit

Exhaust valve, plates 2272-0200/0210/0240

- 2 Exhaust valves complete
(The 2nd exhaust valve is mounted in the Cylinder cover complete)
- 1 High-pressure pipe from actuator to exhaust valve

Fig. 19.06.01a: List of spare parts, unrestricted service, option: 4 87 601

Fuel valve, plate plates 4272-0200/0100

- 1 set Fuel valves of each size and type fitted, complete with all fittings, for 1 engine
 - a) engines with 1 or 2 fuel valves: 1 set of fuel valves for all cylinders on the engine
 - b) engines with 3 and more fuel valves per cylinder: 2 fuel valves complete per cylinder, and a sufficient number of valve parts, excluding the body, to form, with those fitted in the complete valve, a full engine set

Fuel oil high-pressure pipes, plate 4272-0100

- 1 set High-pressure pipe, from fuel oil pressure booster to fuel valve

Turbocharger, plate 5472-0700

- 1 set Maker's standard spare parts
- 1 a) Spare rotor for 1 turbocharger, including compressor wheel, rotor shaft with turbine blades and partition wall, if any

Auxiliary blower, plate 5472-0500

- 1 set Bearings for blower wheel. Only for 50-30ME-B
- 1 set Packing for blower wheel. Only for 50-30ME-B

Bearings and bedplate, plates 2572-0400, 1072-0400

- 1 Main bearing shell (1 upper and 1 lower part) of each size
 - 1 set Studs and nuts for 1 main bearing
- 1) MDT required spare parts
2) All spare parts are requested by all Classes.
a) Only required for RS. To be ordered separately as option: 4 87 660 for other classification societies

Please note: Plate numbers refer to Instruction Book, Vol. II/III containing plates with spare parts

Fig. 19.06.01b: List of spare parts, unrestricted service, option: 4 87 601