

Additional Spares

Beyond class requirements or recommendation, for easier maintenance and increased security in operation.

Cylinder cover, plate 2272-0300

- 4 Studs for exhaust valve
- 4 Nuts for exhaust valve
- ½ eng O-rings for cooling jacket
- ½ eng Sealing between cylinder cover and liner
- 4 Spring housings for fuel valve. Only for S60ME-B

Hydraulic tool for cylinder cover, plates 2270-0310/0315

- 1 set Hydraulic hoses with protection hose complete with couplings
- 8 pcs O-rings with backup rings, upper
- 8 pcs O-rings with backup rings, lower

Piston and piston rod, plates 2272-0400/0420

- 1 box Locking wire, L=63 m
- 5 Piston rings of each kind
- 2 D-rings for piston skirt
- 2 D-rings for piston rod

Piston rod stuffing box, plate 2272-0500

- 15 Self-locking nuts
- 5 O-rings
- 5 Top scraper rings
- 15 Pack sealing rings
- 10 Cover sealing rings
- 120 Lamellas for scraper rings
- 30 Springs for top scraper and sealing rings
- 20 Springs for scraper rings

Cylinder frame, plate 1072-0710

- ½ set Studs for cylinder cover for 1 cylinder
- 1 Bushing for stuffing box

Cylinder liner and cooling jacket, plate 2272-0600/0660/0665

- 4 set Non return valves
- 1 eng O-rings for cylinder liner
- ½ eng Gaskets for cooling water connection
- ½ eng O-rings for cooling water pipes
- 1 set Cooling water pipes with blocks between liner and cover for 1 cylinder

1 *) Repair kit for LDCL circulation pump

1 *) Repair kit for LDCL three-way control valve

*) if fitted

Cylinder lubricating oil system, plate 3072-0600

2 Solenoid valve

1 Level switch for lubricator



Chain drive and guide bars, plate 1472-1410

- 4 Guide bar
- 1 set Locking plates and lock washers

Chain tightener, plate 1472-0500

- 2 Locking plates for tightener

Camshaft, plate 1472-0600

- 1 Exhaust cam (split repair cam if possible)

Hydraulic power supply, HPS, plate 4572-1000/1100, 4572-0750

1 Delivery pump including electric motor

1 Pressure relief valve



Engine control system, plate 4772-1550

1 set Fuses for MPC, TSA, CNR



Hydraulic cylinder unit, HCU, plates 4572-0500/0550

1 set Packings for booster & actuator, complete set

1 Multi-way valve

1 Ball valve, pos. 420

1 Ball valve DN10

1 Accumulator, complete



25% Plug screws, shared with HCU

1 Timing unit

Alarm- and safety system, plate 4772-

1 Pressure sensor for scavenge air receiver, PT 8601

1 Pressure switch for lubricating oil inlet, PS 8109

1 Thrust bearing temperature sensor, TS 8107 (sensor only)

1 Pressure switch for jacket cooling water inlet, PS 8402

Fig. 19.07.01a: Additional spare parts beyond class requirements or recommendation, option: 4 87 603

Main starting valve, plate 3472-0300

The below main starting valve parts are all to be in accordance with the supplier's recommendation:

- 1 Repair kit for main actuator
- 1 Repair kit for main ball valve
- 1 *) Repair kit for actuator, slow turning
- 1 *) Repair kit for ball valve, slow turning

*) if fitted

Starting valve, plate 3472-0200

- 2 Locking plates
- 2 Pistons
- 2 Springs
- 2 Bushing
- 1 set O-rings
- 1 Valve spindle

Exhaust valve, plates 2272-0200/0210

- 1 Exhaust valve spindle
- 1 Exhaust valve seat
- ½ eng O-ring exhaust valve/cylinder cover
- 4 Piston rings
- ½ eng Guide rings
- ½ eng Sealing rings
- ½ eng Safety valves
- 1 eng Gaskets and O-rings for safety valve
- 1 Piston complete
- 1 Damper piston
- 1 eng O-rings and sealings between air piston and exhaust valve housing/spindle
- 1 Spindle guide
- 1 eng Gaskets and O-rings for cooling water connection
- 1 Conical ring in 2/2
- 1 eng O-rings for spindle/air piston
- 1 eng Non-return valve
- 1 Sealing oil unit

Exhaust valve pipe, plate 2272-0240

- 1 High pressure pipe from actuator to exhaust valve

Cooling water outlet, plate 5072-0100

- 2 Ball valve
- 1 Butterfly valve
- 1 Compensator
- 1 eng Gaskets for butterfly valve and compensator. Only for S50ME-B

Fuel injection system, plate 4272-0500

- 1 Fuel oil pressure booster complete, for 1 cylinder

**Fuel valve, plate 4272-0200**

- 1 set Fuel nozzles
- 1 set O-rings for fuel valve
- 1 set Guide rings for fuel valve, if any
- ½ set Springs
- ½ set Discs, +30 bar
- 3 Thrust spindles
- 3 Non-return valve, if mounted

Fuel oil high-pressure pipes, plate 4272-0100

- 1 High-pressure pipe, from fuel oil pressure booster to fuel valve
- 1 set O-rings for high-pressure pipes

Fuel oil regulating valve, plate 4272-0030

- 1 Fuel oil regulating valve, complete
- 1 O-ring of each kind

Turbocharger, plate 5472-0700

- 1 set Spare parts for 1 turbocharger in accordance with the supplier's recommendation

Scavenge air receiver, plates 5472-0400/0630

- 1 set Non-return valves for turbocharger, complete
- 1 Compensator between TC and air cooler

Exhaust pipes and receiver, plates 5472-0750/0900

- 1 Compensator between TC and receiver
- 2 Compensator between exhaust valve and receiver
- 1 set Gaskets for each compensator
- 1 Compensator between FWD and Aft part, if any

Fig. 19.07.01b: Additional spare parts beyond class requirements or recommendation, option: 4 87 603

Safety valve, plate 2272-0330

- 1 set Gaskets for safety valve. Only for CR and NK
- 2 Safety valve complete. Only for CR and NK

Air cooler, plate 5472-0100

- 16 Anodes (Corrosion blocks)
- 1 set Packings. Only for cooler type LKMY

Auxiliary blower, plate 5472-0500

- 1 set Bearings for electric motor
- 1 set Shaft sealings
- 1 set Bearings/belt/sealings for gearbox. Only for belt-driven blowers

Arrangement of safety cap, plate 3472-0900

- 1 eng Bursting disc

ME filter, plate 4572-0800

- 1 set Filter cartridges for redundancy filter. Cartridge filtration ability, minimum $\text{Beta}_6=16$. Only for filter make Boll & Kirch

**Notes:**

In the pcs/set column, 'eng' means 'engine set', i.e. a set for one engine, whereas 'set' means a set for the specific component(s).

Plate numbers refer to the Instruction Manual containing plates with spare parts

Fig. 19.07.01c: Additional spare parts beyond class requirements or recommendation, option: 4 87 603