

**SULZER**

STOOMVAART MAATSCHAPPIJ NEDERLAND  
A M S T E R D A M

Spare parts for single screw cargo ships.

1) Spare parts for main engine 8ST82.

- 2 cylinder liners,
- 16 coupling bolts for crankshaft,
- 2 studs for main bearing,
- 22 studs for cylinder covers,
- 1 working cylinder cover, without valves,
- 1 scavenge air valve complete,
- 2 combined fuel-and starting valves with advance starting valve,
- 4 fuel valve needles, complete,
- 4 pulverizers,
- 2 connecting rod big end bolts,
- 2 connecting rod small end bolts,
- 1 working piston, complete with rod and cooling tube,
- 8 working piston rings,
- 2 oil scraper rings,
- 10 piston rings for 1st stage
- 10 " " " 2nd "
- 12 " " " 3rd "
- 1 gear wheel of bronze for bottom governor drive,
- 1 gear wheel of steel for bottom governor drive,
- 1 gear wheel of bronze for upper governor drive,
- 1 gear wheel of steel for dto.
- 8 delivery plunger with bush for fuel pump,
- 8 suction valves for fuel pump,
- 8 delivery " " " "
- 4 valves 105 mm. for MP stage
- 4 " 75 " " " "
- 4 " 46 " " " "
- 12 valve rings for LP stage 135 mm.
- 12 " " " " " 105 "
- 12 " " " " " 75 "
- 12 " " " " " 46 "
- 1 suction valve for HP
- 1 delivery " " " "
- 1 set of pipings for high pressure air and fuel oil,
- 10% of the principal bolts and studs.

Additional parts:

- 1 main bearing for working cylinder,
- 1 dito for air compressor,
- 1 inwardly springing ring,
- 3 oil scraper rings,
- 1 starting valve spindle,
- 1 torsion shaft for fuel valve,
- 1 cast steel lever,
- 2 thrust bearings for torsion shaft,
- 1 valve for advance starting valve,



- 4 piston rings,
- 2 top end bearings compl. for working cylinder,
- 1 big end bearing complete for air compressor,
- 1 top end bearing for air compressor,
- 1 crosshead pin with 4 bolts,
- 2 compl.slippers for working cylinder,
- 1 working piston head with bolts,
- 8 upper piston rings for working cylinder,
- 12 normal dito
- 4 lower dito
- 8 guide bushes for piston cooling,
- 4 fuel comes,
- 2 starting comes,
- 6 roller pins,
- 6 came rollers,
- 1 LP delivery valve cone
- 1 LP suction valve cone,
- 1 IP suction valve cone
- 1 IP delivery valve cone,
- 1 suction valve for HP stage,
- 1 delivery valve for dito
- 1 valve for non-return valve,
- 1 set metal packing rings for piston rod,
- 1 inwardly springing ring for dito
- 2 piston rings for bilge pump,
- 1 Bosch lubricator, TPC4
- 1 Bosch lubricator TPC8,
- 1 Bosch lubricator TPC10,
- 2 valves for non-return valves for injection air,
- 2 valves for non-return valves for fuel oil,
- 8 running pipes for piston cooling,
- 1 thrust ring for thrust block,
- 2 pressure gauges 1800 x 120 At.
- 1 " " 1800 x 40 "
- 1 " " 1000 x 50 "
- 1 " " 1000 x 30 "
- 1 " " 1000 x 12 "
- 1 " " 1000 x 8 "
- 1 " " 1000 x 5 "
- 1 " " 1000 x 2 "
- 1 " " 1000 x 1 "
- 1 " " 1000 x 0,5 "
- 1 " " 800 x 20 "

1 set of packing rings,

Spare parts for Turbo-blower:

- 1 impeller with shaft, without coupling,
- 1 set of bearings bushes,
- 1 set of packing joints,
- 1/10 of the principal studs and bolts,
- 1 set of spares for oil pump,



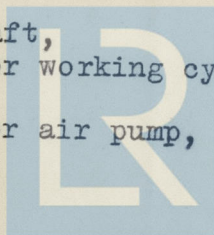
- 1 set of coupling bolts,
- 1 field coil,
- 1 interpole coil,
- 1 set of bearing bushes for motors,
- 1 set of brush holders,
- 4 sets of carbon brushes,
- 10% of the principal studs and bolts for motors,
- 1 set of spare parts for starter,

2) Spare parts for auxiliary engines SS34.

- 2 studs for main bearings,
- 1 working cylinder cover without valves,
- 2 combined starting and fuel valves,
- 5 fuel valve needles,
- 5 pulverizers,
- 1 complete scavenge air valve,
- 2 connecting rod big end bolts,
- 2 " " small " "
- 1 working piston with rod and cooling tube,
- 7 working piston rings
- 4 inwardly springy rings for piston rod,
- 12 piston rings for 1st stage
- 15 " " " 2nd "
- 15 " " " 3rd "
- 9 inwardly springy rings for piston rod of air compressor,
- 2 gear wheels for horizontal shaft,
- 2 gear wheels for vertical shaft,
- 3 suction valves for fuel pump,
- 3 delivery plunger with bush for fuel pump,
- 3 delivery valves for fuel pump,
- 6 valves 75 mm)
- 6 valves 46 mm) for MP and LP stages
- 1 suction valve,
- 1 delivery valve,
- 15 valve rings 85 mm,
- 5 valve rings 104 mm
- 1 set wheels for lubricating pump,
- 1 set of pipings for high pressure air and fuel oil,
- 1 set of the principal studs and bolts,

Additional spare parts:

- 1 main bearings for working cylinder,
- 1 fit bearing,
- 1 main bearing for air pump,
- 2 working cylinder liners,
- 2 compl.pulverizers,
- 2 flame plates,
- 4 distance rings,
- 2 thrust bearings for torsion shaft,
- 1 lower connecting rod bearing for working cylinder,
- 1 upper dito,
- 1 lower connecting rod bearing for air pump,





- 1 top end bearing for air compressor,
- 1 each crosshead pin with slippers,
- 5 running pipes for piston cooling,
- 2 injection tubes,
- 2 fuel cames,
- 6 came rollers,
- 6 roller pins,
- 1 lower thrust ring for vertical shaft,
- 2 compl.suction valve cones,
- 2 compl.delivery valve cones for LP and IP,
- 1 HP suction valve,
- 1 HP delivery valve,
- 2 injection tubes for crosshead pin lubrication,
- 2 valves for non return valve (injection air)
- 2 dito (fuel oil),
- 1 set of springs,
- 1 set of packing material,
- 1 ball bearing No. 658,
- 1 ball bearing No.10024,
- 1 ball bearing No.105,

Spare parts for generators:

- 1 set of bearing bushes (1 dynamo),
- 1 magnet coil,
- 1 interpole coil,
- 1 set (40) brush holders,
- 2 sets (80) carbon brushes,

3) Spare parts for auxiliary engine 4RKH30:

- 8 coupling bolts for crankshaft,
- 2 studs for main bearing,
- 8 studs for cylinder cover,
- 1 fuel valve,
- 4 fuel valve needles,
- 3 spray nozzles,
- 4 flame plates,
- 1 safety valve for working cylinder,
- 12 air inlet clappets,
- 1 starting valve,
- 2 connecting rod bolts,
- 6 working piston rings,
- 4 plungers with bushes for fuel pump,
- 8 valves for fuel pump,
- 2 valves and seats for cooling water pump,
- 1 set of pipings for fuel oil,

Additional spare parts:

- 1 main bearing,
- 1 cylinder liner,
- 1 working cylinder without valves,
- 1 working piston with rod,
- 1 valve for starting valve,



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4) Spare parts for compressor C220 :

16 piston rings for 1st stage,  
 20 " " " 2nd "  
 4 valves 77 mm for HP stage,  
 4 " 56 " " " "  
 24 " 75 " " LP and HP stages,  
 24 " 46 " " LP and HP stages,

Additional spare parts:

1 suction valve cone for LP and IP stages,  
 1 delivery cone,  
 1 HP valve cone,

5) Spare parts for cooling water pumps and motors.

1 impeller of bronze (1st stage)  
 1 impeller of bronze (2nd stage)  
 1 shaft of V2A steel with bronze bushes,  
 1 front bearing bush,  
 1 rear bearing bush,  
 1 rear cover,  
 1 field pole coil,  
 1 interpole coil,  
 1 bearing bush,  
 1 set of brush holders,  
 1 set of carbon brushes,  
 1 set of spares for starter,

6) Spare parts for lubricating oil pumps.

1 set of cogwheels with shafts for the big pump,  
 1 set of do. for the small pump,  
 1 set of bearing bushes for the big pump,  
 1 set of bearing bushes for the small pump,  
 1 set (2) bearing bushes for motor,  
 1 set (6) carbon brushes,  
 1 set (6) brush holders.



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