

List of Spare Gear valves.
for the Machinery of Twin Screw Motor Vessel "STJERNEBORG"
of Copenhagen.

12 exhaust valves complete with springs etc. ready for use.
Burmeister & Wain's Yard No. 557.
6 exhaust valve discs Burmeister & Wain's Eng. Nos. 1536 & 1537.
1 starting air valve complete with springs etc. ready for use.
Copenhagen Report No. 7970.

For the Main Diesel oil engines:-

- 1 cylinder cover complete with all studs & nuts for fastening of valves, cylinder liners, water jackets etc.
- 1 complete set of studs and nuts for one cylinder cover.
- 1 trunk piston with piston rings and crosshead gudgeon pin complete.
- 12 piston rings.
- 4 piston scraping rings.
- 1 telescopic pipe with flange and packing rings.
- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 pair of crosshead gudgeon brasses.
- 1 set of bolts and nuts for one crank shaft coupling.
- 1 set of bolts and nuts for one intermediate shaft coupling.
- 6 oil fuel injection valves complete with springs etc. ready for use.
- 3 oil fuel injection valve discs and spindles.
- 3 bottom parts for oil fuel injection valve chests.
- 1 spindle for the overflow valves.



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2.

6 safety caps for oil fuel injection valves.

Garlock packing for 6 valves.

1 air inlet valve complete with springs &c. ready for use.

12 exhaust valves complete " " " " " " " "

6 exhaust valve discs and spindles.

1 starting air valve complete with springs etc. ready for use.

1 starting air valve disc and spindle.

6 safety caps for starting air valves.

1 guide roller with pin for the oil fuel injection valve levers.

1 " " " " " " " exhaust valve levers.

1 " " " " " " " starting air valve levers.

1 plunger piston for the oil fuel pressure pumps.

1 suction valve " " " " " " " "

1 delivery valve " " " " " " " "

5 packing rings for the oil fuel pressure pump pistons.

Some chain links for the camshaft gear.

1 suction valve seat and disc for the main engine bilge pump.

1 delivery " " " " " " " " " "

Main air compressor.

1 pair of crank pin bearing brasses.

2 crank pin bearing bolts and nuts.

1 crosshead bearing brass.

9 H.P. piston rings.

1 H.P. piston scraping ring.

5 M.P. piston rings.

1 M.P. piston scraping ring.

4 M.P. piston rings.

1 H.P. suction valve seat & disc with spring complete ready for use.

Is there a bearing between each crank

Yes
oil, flash
180° F.
axis 2/3
hole 159
ule 9.7
340 m/m

Yes

le watertight

in one large

Yes

er end of th

ller 4'-6"

29

Means of lubr

oled or logg

exhaust p

engine in th

Yes

Yes

mps. 20 ton

engines.

mps. 45 to

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Machinery

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less, lap welded or riveted longitudinal joint cap weld. Material S.M. Steel Range of tensile strength 28.3 tons Working pressure by Rules III-23.5

Total cubic capacity 565 Cubic feet Internal diameter 5'-11 1/16" and 6'-1" thickness Shell 15/16" + 1/32" x 1/2"

3.

- 1 H.P. delivery valve seat & disc with spring complete ready for use .
- 1 M.P. suction " " " " " " " " "
- 1 M.P. delivery " " " " " " " " "
- 3 L.P. suction valve seats & discs " " " " " " " "
- 2 L.P. delivery " " " " " " " " "
- 1 H.P. air cooling coil with jointing flange and union ready for use .

Auxiliary Diesel oil engines.

- 1 complete set of studs and nuts for one cylinder cover.
- 6 piston rings.
- 1 piston scraping ring.
- 2 pair of main bearing brasses.
- 2 main bearing bolts and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 crosshead bearing bush.
- 1 crosshead gudgeon pin.
- 2 oil fuel injection valves complete with springs etc. ready for use.
- 1 oil fuel injection valve disc and spindle.
- 1 spindle for the overflow valve.
- 2 safety caps and 1 shield cap for the oil fuel injection valves.
- 2 exhaust valves complete with springs etc. ready for use.
- 2 exhaust valve spindles.
- 2 exhaust valve discs.
- 1 starting air valve complete with spring etc. ready for use.
- 1 starting air valve spindle.



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4.

4 rings for the starting air valve spindle.

2 plunger pistons for the oil fuel pressure pump.

1 suction valve " " " " " "

1 delivery valve " " " " " "

8 packing rings for the oil fuel pressure pump pistons.

Auxiliary air compressors.

6 H.P. piston rings.

1 H.P. piston scraping ring.

8 M.P. piston rings.

4 L.P. piston rings.

1 L.P. piston scraping ring.

1 H.P. suction valve complete with seat, spring etc. ready for use.

1 H.P. delivery valve " " " " " " " "

1 M.P. suction valve " " " " " " " "

1 M.P. delivery valve " " " " " " " "

3 L.P. suction valves " " " " " " " "

2 L.P. delivery valves " " " " " " " "

A number of springs suitable for each size and design used at the main and auxiliary engines, main and auxiliary air compressors.

A number of assorted india rubber rings suitable for each size used at the engines and air compressors.

5 valve spindles of various size suitable for the valves on the high pressure injection air receivers.

Various lengths of steel and copper pipes of each size used for the fuel delivery and injection air pipes to the main and auxiliary power cylinders, and the air delivery from the main and auxiliary



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5.

air compressors to the receivers with unions, cone-ends, flanges etc. suitable for each.

A quantity of assorted bolts and nuts.

Small auxiliary air compressor.

1 set of piston rings complete.

Bilge and sanitary pumps:-

1 suction valve complete with seat and spring.

1 delivery valve " " " " "

1 ball bearing.

1 spring for escape valve.

Cooling water pump.

2 ball bearings.

1 spring for escape valve.

Lubricating oil pumps.

1 roller bearing.

1 spring for escape valves.

Oil fuel transfer pump.

1 spring for escape valve.

Lubricating oil cooler.

1 spring for safety valve.

30 tubes.

1 filter.

Starting air receiver.

1 spring for the safety valve.



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W50-0030(5/6)

imum pressure in cylinders 35 kg/cm² Diameter of cylinders 550 mm = 21 7/8" Length of stroke 1000 mm = 39 3/8" No. of cylinders 2 x 6 No. of cranks 12
of bearings, adjacent to the Crank, measured from inner edge to inner edge 730 mm/m ✓ Is there a bearing between each crank 1

Donkey Boiler.

- 1 safety valve spring. *as per Rule 0.61" 3/4" Thickness between liners as per rule 0.46" as fitted 1/2"*
- 1 feed check valve disc. *than one length are the functions made by fusion through the whole thickness of the two liners*
- 1/2 set of valve discs for the feed pump. *is the space charged with a plastic material insoluble in water and non-corrosive*
- 1 atomizer for the oil burner. *Is an approved Oil Cloud or other approved oil burner*

- 1 propeller shaft with key and nut.
- 2 cast iron propellers.

Generators and electro motors.

- 1 set of carbon brushes and 1/2 set of brush holders for each of the 66 K.W. and 33 K.W. generators.
- 1 set of carbon brushes and 1/2 set of brush holders for each of the 25 H.P., 15 H.P., 9 H.P. and 3 H.P. electro motors.
- 3 ball bearings for electro motors. *ASCSA N.H.P 541 DB 100/15*

A quantity of fuses, switches, contact fingers, lamps, lamp holders, fittings, switches etc. suitable for the electric lighting installation.



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W50-0030 (616)

less, lap welded or riveted longitudinal joint *1/2" lap welded. Material S.M. Steel Range of tensile strength 28.3 tons Working pressure by Rules 1*

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