

List of Spare Gear for the Machinery of
Twin Screw Motor Vessel "HIDLEFJORD" of Stavanger

Burmeister & Wain's Yard No. 548

Eng. Nos. 1453 & 1454.

Copenhagen Report No. 7796

Main Diesel Oil Engines:-

- 1 cylinder cover complete with studs and nuts for fastening of valves, cylinder liners and water jackets etc.
- 1 complete set of studs and nuts for one cylinder cover.
- 1 safety valve complete with spring etc. for cylinder.
- 1 safety valve disc.
- 1 piston complete with piston rings and studs & nuts for fastening of the piston rod.
- 16 piston rings.
- 2 piston scraping rings.
- 1 scraping ring with spring for the piston rod.
- 1 telescopic cooling pipe with stuffing box for one piston.
- 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 bearing brasses.
- 2 crosshead bearing bolts and nuts.
- 1 set of bolts and nuts for one crank shaft coupling.
- 1 set of bolts and nuts for one intermediate shaft coupling.
- 10 links for the chain to the cam shaft gearing.
- 1 suction valve disc & seat for the main engine bilge pump.
- 1 delivery " " " " " " " "
- 6 oil fuel injection valves complete with springs etc. ready for use.
- 3 spindles and discs for the oil fuel injection valves.
- 6 bottom parts for the oil fuel injection valves.

Garlock patent packing for the oil fuel injection valves.

1 spindle for overflow valves to the oil fuel injection valves.

12 safety caps for the oil fuel injection valves.

1 shield cap to the safety caps for the oil fuel injection valves.

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

1 spindle and disc for the air inlet valves.

12 exhaust valves complete with springs etc. ready for use.

3 valve discs for the exhaust valves.

3 steel nuts for the exhaust valves.

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

1 valve seat complete for the starting air valve.

12 safety caps for the starting air valves.

1 guide roller with bolt for the oil fuel injection valves.

1 guide roller with bolt for the air inlet valves.

1 guide roller with bolt for the exhaust valves.

1 guide roller with bolt for the starting air valves.

1 plunger piston for the oil fuel pressure pumps.

1 suction valve for " " " " "

1 delivery valve for " " " " "

A number of packing rings for the pump pistons.

Main air compressors:-

1 pair of crank pin bearing brasses.

2 crank pin bearing bolts and nuts.

1 pair of crosshead gudgeon bearing brasses.

9 H.P. piston rings.

1 H.P. piston scraping ring.

5 M.P. piston rings.

1 M.P. piston scraping ring.

4 L.P. piston rings.

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

1 H.P. delivery valve complete with seat & spring etc. ready for use.



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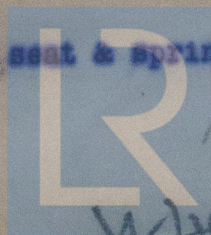
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3.

- 1 M.P. suction valve complete with seat & spring etc. ready for use.
- 1 M.P. delivery valve " " " " " " " "
- 3 L.P. suction valves complete with seats & springs etc. ready for use.
- 2 L.P. delivery valves complete with seats & springs etc. ready for use.
- 1 H.P. suction valve disc.
- 1 H.P. delivery valve disc.
- 1 M.P. suction valve disc.
- 1 M.P. delivery valve disc.
- 3 L.P. suction valves discs.
- 2 L.P. delivery valve discs.
- 1 copper H.P. air cooling coil with flange and union ready for use.
- A number of springs suitable for each size and design used at the main engine and main air compressor.
- 8 valve spindles of various size suitable for the valves on the high pressure air bottles.
- 1 safety valve spring for the starting air receiver.

Small, steam driven, Auxiliary air compressor.

- 1 set of steam piston rings.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 pair of crosshead bearing brasses.
- 2 crosshead bearing bolts and nuts.
- 15 H.P. piston rings.
- 1 H.P. piston scraping rings.
- 5 M.P. piston rings.
- 1 M.P. piston scraping rings.
- 4 L.P. piston rings.
- 1 L.P. piston scraping rings.
- 1 H.P. suction valve complete with seat & spring etc., ready for use.
- 1 H.P. delivery valve complete with seat & spring etc. ready for use.



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4.

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

1 M.P. delivery valve complete with seat & spring etc., ready for use.

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

1 L.P. delivery valve complete with seat & spring etc., ready for use.

1 H.P. suction valve disc.

1 H.P. delivery " "

1 H.P. suction valve disc.

1 M.P. delivery " "

1 L.P. suction " "

1 L.P. delivery " "

A quantity of "Krupp's" and "Palmetto" packing material.

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

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 compressors to the receivers, with unions, coneends, flanges etc. suitable for each.

A quantity of assorted bolts and nuts.

Bilge and sanitary pump:-

1 suction valve complete with seat, spring etc.

1 delivery valve " " " " "

1 ball bearing for the pump.

1 spring for the escape valve.

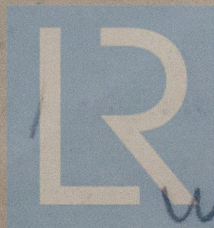
Ballast pump:-

1 wing and 2 guide blocks.

Cooling water pump:-

2 ball bearings.

1 leather packing.



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Lubricating oil pump:-

- 1 roller bearing.
- 1 spring for the escape valve.

Oil fuel transfer pump (Motor driven).

- 1 spring for the escape valve.
- 1 filter basket.

Oil fuel transfer pump (Steam driven).

- 1 set of valves complete with springs etc.

Circulating pump to auxiliary condenser.

- 1 set of valves complete with springs etc.

Main lubricating oil cooler.

- 1 spring for the safety valves.
- 28 brass tubes.
- 1 filter basket.

Auxiliary condenser.

- 15 brass tubes.
- 30 screw ferrules.
- 1 spring for the safety valve.

Donkey Boilers:-

- 1 spring for the boiler safety valves.
- 1 complete set of valves for the boiler feed pump.
- 2 valve discs for feed check valves.
- 6 plain boiler tubes.
- 4 stay tubes.
- 6 water gauge glasses with packing rings.
- 2 oil fuel burners.
- 1 filter for the oil burning arrangement.

Steam engine for the blower to boilers.

- 1 set of piston rings.



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6.

- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 pair of crosshead bearing brasses.
- 2 crosshead bearing bolts and nuts.

steam engine for the oil fuel pressure pumps to boilers.

- 1 set of piston rings.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 pair of crosshead bearing brasses.
- 2 crosshead bearing bolts and nuts.

2 cast iron propellers.

1 propeller shaft with nut and key.

Generators and Electro motors.

- 1 set of carbon brushes for one of the 66 K.W. generators.
- $\frac{1}{2}$ set brush holders for " " " " " "
- 1 set of carbon brushes for the 8 K.W. auxiliary generator.
- $\frac{1}{2}$ set of brush holders for " " " " " "
- 1 set of carbon brushes and $\frac{1}{2}$ set of brush holders for the 9
K.W. - 6 K.W. - electro motors.
- 3 ball bearings and 1 roller bearing for different sizes of
electro motors.

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



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