

Copenhagen Report No.

List of Spare Gear

For the Main Diesel oil engines Nos. 1439 & 1440, designated

"M 1 3 8 1 6".

by Messrs. Burmeister & Wain, Copenhagen,

ordered for Yard No. 150 by Messrs. Mitsui Bussan Kaisha, Tama.

Main Diesel oil engines:-

1. Piston rods with pins and nuts fitted complete for
2. Piston rings, cooling water jacket etc.
3. Piston rings and nuts for one cylinder cover.
4. Piston rings for cylinder cover.
5. Piston rings for one valve cover.
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1 plunger piston for the oil fuel pressure pumps.

1 suction valve " " " " " "

1 delivery valve " " " " " "

3 packing rings for the oil fuel pressure pump pistons.

Main air compressors.

1 pair of main bearing brasses.

1 pair of crank pin bearing brasses.

2 crank pin bearing bolts and nuts.

1 crosshead bearing gudgeon bush.

2 H.P. piston rings.

1 H.P. piston scraper rings.

3 L.P. piston rings.

1 L.P. piston scraper rings.

6 L.P. piston rings.

2 H.P. suction valves complete with seats, springs etc.

2 H.P. delivery valves " " " " "

2 L.P. suction valves " " " " "

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

2 L.P. suction valves " " " " "

6 L.P. delivery valves " " " " "

2 H.P. suction valve discs.

2 H.P. delivery " "

2 L.P. suction " "

2 L.P. delivery " "

2 L.P. suction " "

2 L.P. delivery " "

1 H.P. air cooling coil with flange and union complete.



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no valves and to be used at the valves on the high pressure injection air receivers.

a number of springs of each size and design used at the main engine and main air compressors.

a number of elastic rings and rubber packing rings of each size used at the engines and air compressors.

a quantity of "Grip" and "Palmetto" patent packing material.

Various lengths of steel and copper pipes of each size used for the fuel delivery and injection air pipes to the main power cylinders and the air delivery from the compressors to the air receivers with unions, cone-ends, flanges etc. suitable for work.

a quantity of assorted bolts and nuts.

1 wing and 2 guide blocks for the rotary ballast pump.

2 ball bearings for the centrifugal cooling water pump.

1 roller bearing for the cog wheel lubricating oil pump.

1 safety valve spring for the cog wheel lubricating oil pump.

1 safety valve spring for the lubricating oil cooler.

1 bilge valve with seat, spring etc. complete for the bilge and sanitary pump.

1 bilge valve with seat, spring etc. complete for the bilge and sanitary pump.

1 ball bearing for do. do.

1 spring for the escape valve for do. do.



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5.

Set of brushes & set of brush holders and ball bearing for each of the electric motors working the ballast pump, cooling water pump, lubricating oil pumps, bilge and sanitary pumps and the turning gear to the main engine.



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