

Copenhagen Report No.

List of Spare Gear

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

"M i t s u i 6".

by Messrs. Burmeister & Wain, Copenhagen,
proposed for Yard No. 150 by Messrs. Mitsui Bussan Kaisha, Tama.

Main Diesel oil engines:-

- 1 cylinder cover with all studs and nuts fitted complete for fastening of cylinder liner, cooling water jacket etc.
- 1 set of studs and nuts complete for one cylinder cover.
- 1 safety valve complete for cylinder cover.
- 1 valve disc and 1 seat for safety valve on cylinder cover.
- 1 piston with piston rings and studs & nuts complete for fastening of piston rod.
- 16 piston rings.
- 2 piston scraping rings.
- 1 telescopic pipe with stuffing box and packings for the piston cooling.
- 1 scraping ring for the piston rod stuffing box.
- 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.



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009459-009458-0412 1/5

2.

1 set (10) of coupling bolts and nuts for one crank shaft coupling.

10 links for the chain to the camshaft gearing.

1 suction valve disc and seat for the engine bilge pumps.

1 delivery " " " " " " " "

8 oil fuel injection valves with all mountings complete, ready
for use.

8 oil fuel injection valve spindles and discs combined.

9 packing rings for the oil fuel injection valve spindles.

8 bottom ends for the oil fuel injection valves.

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

16 safety caps for the oil fuel injection valves.

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

2 air inlet valves with all mountings complete, ready for use.

1 air inlet valve spindle and disc combined.

1 " " " seat.

16 exhaust valves with all mountings complete, ready for use.

4 exhaust valve seats.

2 thermometer pieces.

1 starting air valve with all mountings complete, ready for use.

1 starting air valve spindle and disc combined.

1 starting air valve seat.

1 guide roller with bolt for the balance lever to the oil fuel
injection valve gear.

1 guide roller with bolt for the balance lever to the air inlet
valve gear.

1 guide roller with bolt for the balance lever to the exhaust
valve gear.



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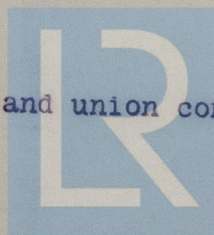
0412 2/5

3.

- 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.

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.
- 7 H.P. piston rings.
- 1 H.P. piston scraper rings.
- 5 I.P. piston rings.
- 1 I.P. piston scraper rings.
- 4 L.P. piston rings.
- 2 H.P. suction valves complete with seats, springs etc.
- 2 H.P. delivery valves " " " " "
- 2 I.P. suction valves " " " " "
- 2 I.P. delivery valves " " " " "
- 7 L.P. suction valves " " " " "
- 6 L.P. delivery valves " " " " "
- 2 H.P. suction valve discs.
- 2 H.P. delivery " "
- 2 I.P. suction " "
- 2 I.P. delivery " "
- 6 L.P. suction " "
- 7 L.P. delivery " "
- 1 H.P. air cooling coil with flange and union complete.



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0412 3/5

4.

7 valve spindles suitable for each design used at the valves on the high pressure injection air receivers.

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

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

A quantity of "Krupps" 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 each.

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 pumps.

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

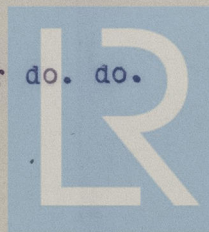
1 safety valve spring for the lubricating oil cooler.

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

1 delivery 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.



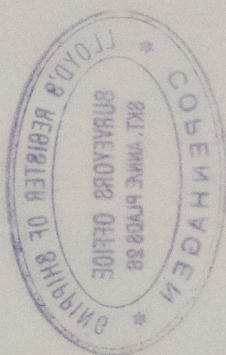
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0412 4/5

5.

1 set of brushes, $\frac{1}{2}$ set of brush holders and ball bearing for each of the electro motors working the ballast pump, cooling water pumps, lubricating oil pumps, bilge and sanitary pumps and the turning gear to the main engines.



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0412 5/5

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by *Master Burmeister & Wain.*

Copenhagen.

Copenhagen Report No. 78/9.a.



and the turning gear to the main engines.
water pumps, lubricating oil pumps, pipe and sanitary pumps
each of the electric motors working the bilgeat pump, cooling
1 set of primaries, 1 set of pump holders and ball bearing for



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