

Copenhagen Report No. 7325.

List of Spare Gear for the Machinery of the
Screw Motor Vessel

built by Messrs. Mitsui Bussan Kaisha. Tama, Japan.

Engine No. 1271 (Mitsui 3) by Messrs. Burmeister & Wain. Copenhagen.

Main Diesel Oil Engine :

- 1 pair of connecting rod bottom end brasses.
- 2 connecting - rod bottom end bolts and nuts.
- 1 pair of connecting rod top - end gudgeon brasses.
- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 8 coupling bolts for the crank shaft.
- 1 cylinder cover complete with studs and nuts for fastening of
valves, cylinder liner and cooling water jacket.
- 1 set of studs and nuts for one cylinder cover.
- 1 safety valve complete for cylinder covers.
- 1 valve disc for the safety valves to the cylinder covers.
- 1 valve seat for " " " " " " " "
- 1 trunk piston complete with packing rings and connecting rod
top end gudgeon bolt.
- 10 piston packing rings.
- 6 piston scraping rings.
- 3 fuel oil injection valves complete with all mountings.
- 3 valve spindles for oil fuel injection valves.
- 6 packing rings for " " " " " "
- 3 bottom ends for " " " " " "
- 1 spindle for the overflow valve to the oil fuel injection valve.
- 1 roller for the guide arm to the oil fuel injection valve.
- 2 air inlet valves complete with all mountings.
- 1 valve spindle for the air inlet valves.
- 1 valve seat for " " " " " "



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- 1 roller for the guide arm to the air inlet valve.
- 6 exhaust valves complete with all mountings.
- 2 valve discs for the exhaust valves.
- 1 roller for the guide arm to the exhaust valves.
- 1 starting air valve complete with all mountings.
- 1 valve spindle for the starting air valves.
- 1 valve seat for the " " " .
- 1 plunge piston for the oil fuel injection pump.
- 3 packing rings the piston for the oil fuel injection pump.
- 1 suction valve for the oil fuel injection pump.
- 1 delivery " " " " " " " .

Main air compressor.

- 1 pair connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 pair connecting rod top end gudgeon brasses.
- 4 L.P. piston packing rings.
- 5 M.P. " " " .
- 1 M.P. " scraping " .
- 7 H.P. " packing " .
- 1 H.P. " scraping " .
- 3 L.P. suction valves complete with seats and springs.
- 3 L.P. delivery valves " " " " " .
- 1 M.P. suction valve " " " " " .
- 1 M.P. delivery " " " " " .
- 1 H.P. suction " " " " " .
- 1 H.P. delivery " " " " " .
- 3 L.P. suction valve discs.
- 3 L.P. delivery " "
- 1 M.P. suction " "
- 1 M.P. delivery " "
- 1 H.P. suction " "
- 1 H.P. delivery " "



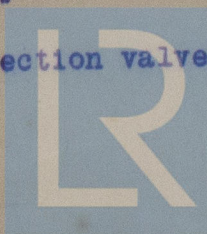
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- 1 copper air cooling coil complete with flange and union for
H.P. compressor cylinder.
- 2 unions for the cooling water thermometers.
- A number of springs suitable for all sizes used at the main
engines and main air compressor.
- A number of india rubber rings and special packings for all
sizes used at the main engine and air compressor.

Auxiliary Diesel oil engines :

- 2 pair of main bearing brasses.
- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 pair of connecting rod top end gudgeon brasses.
- 6 piston packing rings.
- 1 piston scraping ring.
- 1 set of studs with nuts for one cylinder cover.
- 1 air inlet valve complete with all mountings.
- 1 roller for the valve rocker arm to the air inlet valves.
- 1 oil fuel injection valve complete with all mountings.
- 1 valve spindle for the oil fuel injection valves.
- 1 roller for the valve rocker arm to the oil fuel injection
valves.
- 1 exhaust valve complete with all mountings.
- 2 valve discs for the exhaust valves.
- 1 roller for the valve rocker arm to the exhaust valves.
- 1 starting air valve complete with all mountings.
- 1 safety valve complete for the cylinder covers.
- 1 valve seat for the safety valves to the cylinder covers.
- 2 plunger pistons for the oil fuel injection pump.
- 6 packings rings to the pistons for the oil fuel pumps.
- 1 suction valve for the oil fuel pumps.
- 1 delivery valve for " " " "
- 2 safety valves to the oil fuel injection valves.



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Auxiliary Air Compressors.

- 8 L.P. piston packing rings.
- 2 L.P. " scraping "
- 7 M.P. " packing "
- 2 M.P. " scraping "
- 13 H.P. piston packing "
- 2 H.P. " scraping "
- 1 L.P. suction valve complete with seats & springs.
- 1 L.P. delivery valve " " " "
- 2 H.P. suction " " " "
- 2 H.P. delivery " " " "
- 1 L.P. suction valve disc.
- 1 L.P. delivery " "
- 2 H.P. suction " "
- 2 H.P. delivery " "
- 2 copper air cooling coils complete with flanges and unions for
the H.P. compressor cylinder.
- A number of springs suitable for sizes used at the auxiliary
engines and air compressors.
- A number of india rubber packing rings suitable for all sizes
used at the auxiliary engines and air compressors.
- Various lengths of pipes suitable for the fuel delivery and the
blast pipes to cylinders and the air delivery from the compres-
sors to the air receivers, with unions, cone ends, and flanges
suitable for each size used.-
- A quantity of "Krupps" and "Palmetto" patent packing material.
- A quantity of assorted bolts and nuts of each size used.-
- 4 valves spindles for the valves on the high pressure injection
air receivers.
- 2 fusible plugs for the injection air receivers.



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- 1 wing for the ballast pump.
- 2 wing guides for the ballast pump.
- 1 suction valve complete for the bilge and sanitary pumps.
- 1 delivery valve " " " " " "
- 1 spring for the escape valve to the bilge and sanitary pumps.
- 2 ball bearing for the cooling water pump.
- 1 roller bearing for the lubricating oil pump.
- 1 spring for the escape valve to the lubricating oil pump.
- 1 spring for the escape " " " " " fitter.

Electro Generators and Motors:

- 1 set of brushes and $\frac{1}{2}$ set of brush holders for the 66 K.W.
dynamo.
- 1 set of brushes and $\frac{1}{2}$ set of brush holders for the 33 K.W.
dynamo.
- 1 set of brushes, $\frac{1}{2}$ set of brush holders and one ball bearing
for each size used for the electra motors working the
ballast pump, bilge and sanitary pumps, lubricating oil
pump, oil fuel transfer pump and turning gear.-



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1 set of brushes and 1 set of brush holders for the 33 K.W. dynamo.
 1 set of brushes, 1 set of brush holders and one half bearing
 for each size used for the electric motor working the
 ballast pump, dike and auxiliary pumps, indicating oil
 pump, oil fuel transfer pump and tunnel fan.

Electric Generators and Motors:

- 1 button for the escape " " " " " " " "
- 1 spring for the escape valve to the indicating oil pump.
- 1 roller bearing for the indicating oil pump.
- 1 ball bearing for the cooling water pump.
- 1 spring for the escape valve to the dike and auxiliary pumps.
- 1 delivery valve " " " " " " " "
- 1 section valve complete for the dike and auxiliary pumps.
- 1 wing knives for the ballast pump.
- 1 wing for the ballast pump.



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June 3.27 CL