

N/N TÄSÄNEE

List of Spare Gear
for the Single screw Motor Vessel "M u l c r a",
Burmeister & Wain's Yard No. 318.
Engines No. 1161.

Cpn. Rpt. No. 7/24.

Main Engine:-

- 2 cylinder covers with studs.
- 1 cylinder liner.
- 1 pair of crank pin brasses.
- 2 crank pin bolts with nuts.
- 1 pair of trunk pin brasses.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 piston complete with pin and rings.
- 20 piston packing rings.
- 12 piston scrape rings.
- 1 set studs with nuts for one cylinder cover.
- 1 suction valve complete.
- 6 exhaust valves complete.
- 3 exhaust valve discs.
- 1 starting valve complete.
- 3 oil fuel injection valves complete.
- 3 spindles for do.
- 6 bottom pieces for do.
- 1 spindle for over-flow valve.
- 3 rollers for valve lifting arms.
- 1 set of all moving parts for fuel oil pump.
- 2 bursting caps for the starting air pipes.
- 3 do. for the oil fuel injection valves.

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Compressor.

- 1 pair of crank pin brasses with belts.
- 1 pair of trunk pin brasses.
- 1 H.P. suction valve complete.
- 1 H.P. discharge valve complete.
- 1 I.P. discharge valve complete.
- 1 I.P. suction valve complete.
- 2 L.P. suction valves complete.
- 2 L.P. discharge valves complete.
- 7 H.P. piston packing rings.
- 1 H.P. piston scrape ring.
- 5 I.P. piston packing rings.
- 1 I.P. piston scrape ring.
- 4 L.P. piston packing rings.
- 1 H.P. cooling coil with flanges and unions.

1 screw shaft with nut.

8 coupling bolts with nuts.

1 complete set of all springs used.

1 chain for the camshaft motion.

Thermometer pieces, packing material, pipes in suitable lengths with unions &c. for the fuel oil, injections and starting air, bolts and studs with nuts &c.

Auxiliary Diesel Engines.

- 1 cylinder with cover & studs and nuts.
- 1 piston complete with pin and rings.
- 1 pair of crank pin brasses with bolts and nuts.
- 1 connecting rod top end bush.
- 2 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 18 piston packing rings.
- 3 piston scrape rings.
- 4 exhaust valves complete.
- 2 exhaust valve seats.



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3.

- 4 oil fuel injection valves complete.
- 1 starting valve.
- 1 set of all moving parts for the fuel oil pump of each engine.
- 3 rollers with shafts for the valve lifting arms.
- 2 H.P. cooling coils with flange & union.
- 1 set studs with nuts for one cylinder cover.

Compressors.

- 1 H.P. suction valve.)
- 1 H.P. discharge valve.) for 1 cyl. engine.
- 2 L.P. suction valves.)
- 1 L.P. discharge valve.)

- 1 H.P. suction valve.)
- 1 H.P. discharge valve.)
- 1 I.P. discharge valve.) for 2 cyl. engine.
- 1 I.P. suction valve.)
- 3 L.P. suction valves.)
- 2 L.P. discharge valves.)

- 6 H.P. piston packing rings.)
- 1 H.P. piston scrape ring.)
- 4 L.P. piston packing rings.) for 1 cyl. engine.
- 2 L.P. piston scrape rings.)
- 8 intermediate rings.)

- 7 H.P. piston packing rings.)
- 1 H.P. piston scrape ring.)
- 5 I.P. piston packing rings.) for 2 cyl. engine.
- 2 I.P. piston scrape rings.)
- 4 L.P. piston packing rings.)

1 complete set of all springs used.

Melting plugs for the air receivers, bursting caps for the oil fuel injection valves, india rubber packing, bolts and studs with nuts &c. &c.

Auxiliary Machinery.

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- 2 suction valves complete for bilge & cooling water pump.
 - 2 discharge valves complete for bilge & cooling water pump.
 - 2 suction valves complete with springs & studs for the bilge and sanitary pump.
 - 2 discharge valves complete with do. do.
 - 1 ball bearing ~~spring~~ for do.
 - 2 roller bearings for the oil fuel transfer pump and spare lubricating oil pump.
 - 1 ball bearing of each size for do.
 - 1 ball bearing for turning gear.
 - 1 ball bearing of each size for ballast pump.
 - 1 ball bearing of each size for oil fuel separator.
 - 1 shaft for the 33 kwt. dynamo.
 - 1 shaft for the 66 " "
 - 1 set of springs for all the escape valves.
 - Brushes and brush-holders, fuses and lamps, contact fingers &c. for the electric light & power installation.



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List of spare parts
m/s. Mulena

Exp. Rpt. No 7124.

AUXILIARY MACHINERY.

4.

- 5 suction valves complete for pipe & cooling water pump.
- 5 discharge valves complete for pipe & cooling water pump.
- 5 suction valves complete for pipe & cooling water pump.

and auxiliary pump.

- 5 suction valves complete with do. do.

- 5 roller bearings for the oil fuel transfer pump and spare

- 1 ball bearing for do.

- 1 ball bearing for turning gear.

- 1 ball bearing of each size for piston pump.

- 1 ball bearing of each size for oil fuel separator.

- 1 shaft for the 33 kwf. dynamo.

- 1 set of springs for all the escape valves.

- for the electric light & power installation.

- Brushes and brush-holders, fuses and lamps, contact fingers &c.



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