

List of Spare Gear

for

the M/S. "CAROLINE MÆRSK" of Fredericia.

Odense Staalskibsværft's Yard No. 30.

Burmeister & Wain's Eng. Nos. 1474/75.

Cpn. Rpt. No. 7845.

Main Engines:-

1 cylinder cover with studs and nuts complete.

1 cylinder liner.

2 air inlet valves complete.

12 exhaust valves complete.

6 bottom pieces for do.

9 valves for do.

6 oil fuel injection valves complete.

6 spindles for do.

6 atomizers for do.

12 bursting caps for do.

6 bottom pieces for do.

1 overflow valve for do.

2 starting air valves complete.

1 escape valve for cylinders complete.

4 rollers with shafts for valve lifting gear.

1 piston with rings.

32 piston packing rings.

4 scrape rings.

1 scrape ring with spring for piston rod.

2 telescopic pipes for piston cooling.

1 pair of crank pin brasses with bolts and nuts.

1 pair of main bearing brasses.

2 main bearing studs with nuts.



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2.

- 1 set studs with nuts for one cylinder cover.
- 9 coupling bolts with nuts for crank shaft.
- 10 coupling bolts with nuts for crank shaft.
- 3 screws for crank shaft coupling flange.
- 3 thermometer pieces for cooling water discharge from cylinder covers.
- 2 bursting caps for starting air line.
- 3 pistons for fuel oil pressure pump.
- 1 suction valve for do.
- 1 discharge valve for do.
- 15 packing rings for do.
- 1 suction valve for bilge pump.
- 1 discharge valve for bilge pump.
- 4 links for the valve gear chain drive.

Main Air compressors.

- 18 H.P. piston packing rings.
- 2 H.P. scrape rings.
- 5 I.P. piston packing rings.
- 1 I.P. scrape ring.
- 4 L.P. piston packing rings.
- 1 H.P. suction valve complete.
- 1 H.P. discharge valve complete.
- 1 I.P. suction valve complete.
- 1 I.P. discharge valve complete.
- 7 L.P. suction valves complete.
- 5 L.P. discharge valves complete.
- 1 pair of crank pin brasses with bolts and nuts.
- 1 H.P. cooling coil with flange and union.
- 1 length of 2½" starting air pipe.
- 2 flanges for do.
- 1 length of 25 x 33 mm. injection air pipe.
- 1 length of 17 x 24 mm. "
- 1 length of 7 x 11 mm. oil fuel injection pipe.

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3.

3 lengths of 16 x 19 mm. brass tubes for L.P. air cooler.

3 " " 16 x 21 mm. " " " I.P. " "

7 valve spindles for injection air bottles.

1 complete set of all springs used for one engine.

Assorted bolts & nuts, packing material and rubber packings of suitable dimensions.

Auxiliary Diesel engines.

1 cylinder liner with cover.

1 piston complete with rings and trunk pin.

1 air inlet valve complete.

1 spindle for do.

1 exhaust valve complete.

2 spindles for do.

2 valves for do.

1 oil fuel injection valve complete.

1 spindle for do.

2 bursting caps for do.

1 starting air valve complete.

1 cylinder escape valve complete.

2 rollers with shafts for valve lifting gear.

12 piston rings.

2 scrape rings.

2 crank pin bolts with nuts.

2 pair of main bearing brasses.

2 main bearing studs with nuts.

1 pair of crank pin brasses with bolts and nuts.

1 connecting rod top end bush.

1 suction valve for fuel oil pump.

1 discharge valve for do.

2 pistons for do.

2 crossheads complete for do.

8 packing rings for do.

1 non-return valve for fuel distributor.

1 set studs with nuts for the valves of one cylinder cover.

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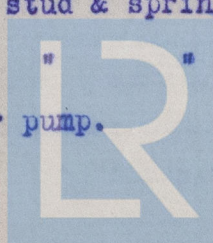
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Auxiliary Air compressors.

- 14 H.P. piston packing rings.
- 2 H.P. scrape rings.
- 5 I.P. piston packing rings.
- 2 I.P. scrape rings.
- 4 L.P. piston packing rings.
- 1 H.P. suction valve complete.
- 1 H.P. discharge valve complete.
- 1 I.P. suction valve complete.
- 1 I.P. discharge valve complete.
- 3 L.P. suction valves complete.
- 2 L.P. discharge valves complete.
- 1 pair of crank pin brasses with bolts and nuts.
- 1 length of 30 x 38 m/m starting air pipe.
- 4 flanges for do.
- 1 length of 4 x 7 mm. oil fuel injection pipe.
- 1 length of 11 x 16 mm. injection air pipe.
- 1 length of 7 x 11 mm. oil fuel injection pipe.
- 1 complete set of all springs used.
- Packing material, rubber packings in suitable sizes, unions, cones & flanges, assorted bolts & nuts &c.

Sundry spare parts.

- 1 propeller shaft with liner, key and nut.
- 6 coupling bolts.
- 2 propellers, right and left hand, cast iron.
- 1 wing for ballast pump.
- 2 guide blocks for do.
- 1 ball bearing for bilge & sanitary pump.
- 1 escape valve spring for do.
- 1 suction valve with seat, guide stud & spring for do.
- 1 discharge valve with seat, " " " "
- 2 ball bearings for cooling water pump.



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5.

- 1 roller bearing for lubricating oil pump.
- 1 escape valve spring for cooling water & lubricating oil pump.
- 1 " " " " spare lubricating oil pump and transfer pump.
- 1 lubricating oil filter.
- 1 escape valve spring for do.
- 1 escape valve spring for starting air receiver.
- 1 fuel oil filter.
- 2 safety valve springs.
- 2 feed check valves.
- 12 watergauge glasses.
- 1 set valves for the donkey feed pump.
- $\frac{1}{2}$ set valves for the cargo oil main pumps.
- $\frac{1}{2}$ set " " " " oil stripping pump.
- $\frac{1}{2}$ set valves for the Diesel oil fuel transfer pump in forward pump room.
- $\frac{1}{2}$ set valves for the Boiler oil fuel transfer pump.
- $\frac{1}{2}$ set valves for the Ballast pump in forward pump room.

Electric Fittings.

- 1 armature for the electromotor for the cooling water & lubr. oil pump.
- 1 set coal brushes and $\frac{1}{2}$ set brush holders for each size of dynamos and electromotors.
- 4 ball bearings for electromotors.
- Contact fingers, resistance coils, springs, fuses, lamps &c.



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