

Copenhagen Report No.

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

Yard No. "E-5". by Messrs. Chantier de Normandie, Rouen.

Engines No. 1100 & 1101 by Messrs Burmeister & Wain. Copenhagen.

Main Diesel oil engines:

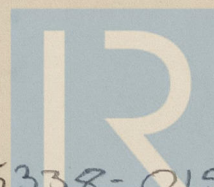
- 2 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 2 pair of connecting rod bottom-end brasses.
- 2 connecting rod bottom-end bolts and nuts.
- 2 pair of connecting rod top-end brasses.
- 2 connecting rod top-end bolts and nuts.
- 6 bolts and nuts for guide shoes.
- 1 set of coupling bolts and nuts for the crank shaft.
- 2 cylinder covers complete with studs and nuts for fastening of valves, cylinder liners and cooling water jackets.-
- 1 piston complete with packing rings and studs and nuts for fastening of the piston rods.-
- 1 piston with studs and nuts for fastening of piston rod.-
- 1 piston rod with nut complete.-
- 27 piston packing rings.
- 9 piston scraping rings.
- 3 scraping rings for the piston rods.
- 7 oil fuel injection valves with all mountings complete.
- 9 spindles for oil fuel injection valves.
- 9 bottom ends for " " "
- 6 atomizer cones for " " "
- 3 safety cabs for " " "
- 2 studs with nuts for fastenings the oil fuel injection valves.
- 4 spindles fore overflow valves for " " " "
- 8 metallic packing rings for " " " " "
- 2 starting air valves with all mountings complete.-
- 2 studs with nuts for fastening the starting air valves.

2.

- 2 air inlet valves with all mountings complete.
- 2 studs with nuts for fastening the air inlet valves.
- 12 exhaust valves with all mountings complete.
- 12 spindles for exhaust valves.
- 12 bottom rings for " "
- 3 steel nuts for exhaust valve spindles.
- 2 studs with nuts for fastening the exhaust valves.
- 2 safety valves complete for cylinder covers.
- 2 studs with nuts for fastening the safety valves.
- 3 rollers with pins for the oil fuel valve gear.
- 1 roller with pin for the air inlet valve gear.
- 1 " " " for the exhaust valve gear.
- 1 " " " for the starting air valve gear.
- 18 plunge pistons for the oil fuel pumps.
- 12 stuffing box neck bushes for the oil fuel pumps pistons.
- 24 packing ring for the oil fuel pumps pistons.
- 6 suction valves for the oil fuel pumps.
- 6 delivery valves " " " " "

Main air compressor.

- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of connecting rod bottom-end brasses.
- 2 connecting rod bottom-end bolts and nuts.
- 1 pair of connecting rod top-end brasses.
- 4 LP piston packing rings.
- 5 MP " " "
- 7 HP " " "
- 1 MP " scraping "
- 1 HP " " "
- 5 LP suction valves.
- 3 " delivery "
- 1 MP suction "
- 1 " delivery "
- 1 HP suction "
- 1 " delivery "



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Lloyd's Register

015338-015347-02112/5

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Engines made at *Copenhagen*

By whom made

Donkey Boilers made at

By whom made

Boiler No. *1101*

When made

3000

Owners *W. H. Wilhelmsen*

Port belonging to *Oslo*

4.

- 2 suction valves for the oil fuel pump.
- 2 delivery valves " " " " "
- 3 safety cabs for the oil fuel injection valves.
- 8 packing rings for the safety cabs.-
- 3 safety cabs for the starting air piping.
- 2 strainers for the oil fuel filters.

Auxiliary engine air compressors.

- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolt and nuts.
- 4 LP. piston packing rings.
- 5 MP. " " "
- 2 " " scraping "
- 7 HP. " packing "
- 1 " " scraping ring.
- 2 LP. suction valves.
- 1 " delivery valve.
- 1 MP. suction "
- 1 " delivery "
- 1 HP. suction "
- 1 " delivery "

A number of springs suitable for all sizes used at the auxiliary engines and air compressors.

A number of assorter india rubber packing rings suitable for all sizes used at the 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 compressors to the receivers, with unions, cone ends, and flanges suitable for each size used.-

A quantity of brass tubes of the various sizes used in the air coolers and oil coolers.-

A quantity of Krupp's and Palmetto packings.-

A quantity of assorted bolts and nuts.-



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015338-015347-020415

Engines made at Copenhagen

Donkey Boilers made at

By whom made Krumpholtz & Havnsholm

By whom made

Engine No. 1101 When

Boiler No. ✓ When

Owners W. H. Wilhelmsen

Port belonging to Oslo

5.

5 valve spindles for the valves on the air receiver, suitable for the various sizes used.-

Small spare air compressor:-

3 LP piston packing rings.

7 HP. " " "

8 intermediate piston packing rings.

1 LP delivery valve complete with seat and spring.

1 " " " spring.

1 HP. delivery valve complete with seat and spring.

1 " " " spring.-

1 suction valve disc. with seat and spring for the bilge and sanitary pumps.

1 delivery valve disc. with seat and spring for the bilge and sanitary pumps.

1 escape valve spring for the bilge and sanitary pump.

1 ball bearing for " " " " "

Various spare parts for the ballast pump,- forced lubrication oil pump,- cooling water pumps, and oil transfer pump.-

A quantity of ball bearings, coal brushes, brush holders, springs etc. suitable for the sizes used at the dynamos and electro motors.-



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015338-015347-021155

Seamless, lap welded or riveted longitudinal joint as per riveted Material as per Range of tensile strength End - 290-314 Working pressure as per

intended to be fitted in the
Motor Vessel *Yard N^o E-5*
being built by
Messrs Chantiers de Normandie
Rouen.

Copenhagen Rpt. N^o 7/31.



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*10/11/11. L. A. 55
Old Engines*