

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.



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- 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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Engines made at Copenhagen

By whom made Burmester & Wain's Askem og Ketslugger

Engine No. 1101 When made

Donkey Boilers made at

By whom made

Boiler No. When made

Power 3000

Owners W. Th. Wilhelmsen

Port belonging to Oslo, Nor

Light fitted

3.

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

A number of india rubber rings suitable for all the sizes used at the engines and air compressors.

Auxiliary Diesel oil engines:

- 2 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 pair of connecting rod bottom-end brasses.
- 2 connecting rod bottom-end bolts and nuts.
- 1 connecting rod top-end bush.
- 1 cylinder cover complete with studs and nuts. for fastening of valves, cylinder liner and cooling water jacket.
- 1 trunk piston complete with packing rings and crosshead pin.
- 12 piston packing rings.
- 3 piston scraping rings.
- 3 oil fuel injection valves with all mountings complete.
- 1 spindle for oil fuel injection valves.
- 2 studs with nuts for fastening the oil fuel injection valves.
- 1 starting air valve with all mountings complete.
- 2 studs with nuts for fastening the starting air valves.
- 1 air inlet valve with all mountings complete.
- 1 spindle for the air inlet valves.
- 2 studs with nuts for fastening the air inlet valves.
- 2 exhaust valves with all mountings complete.
- 2 spindles for the exhaust valves.
- 2 valve discs. for the exhaust valves.
- 2 studs with nuts for fastening the exhaust valves.
- 1 safety valve complete for cylinder covers.
- 2 rollers complete for the oil fuel injection valve guide arm.
- 1 roller " " " air inlet " " "
- 1 " " " " exhaust " " "
- 2 pistons with nut for the oil fuel pump.
- 2 crossheads " " " " " "
- 2 crosshead pins " " " " " "
- 2 stuffing box neck bushes " " "

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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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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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