

Copenhagen Report No. 7093.

List of Spare Gear for the Machinery of the
Twin Screw Motor Vessel "PROMETHEUS" of Liverpool
Yard No. 597 by Messrs. Scott's Shipbuilding & Engineering Co. Ltd.
Greenock.
Engines Nos. 1133 & 1134 by Messrs. Burmeister & Wain, Copenhagen.

Main Diesel Oil Engines.

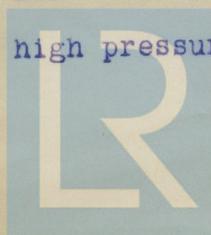
2 cylinder covers complete with studs and nuts for fastening
of valves, cylinder liner and water jacket.
One set of studs and nuts, one cylinder cover for fastening of
valves, cylinder liner and water jacket.
2 Cylinder liners.
One piston with piston rod complete.
One piston with studs and nut for fastening of rod complete.
40 piston packing rings.
24 do. do. do.
8 piston scraping rings.
4 pair of main bearing brasses.
8 main bearing studs with nuts.
2 pair of connecting rod bottom end brasses.
4 connecting rod bottom-end bolts and nuts.
2 pair of connecting rod top-end brasses.
4 connecting rod top-end bolts and nuts.
One set of coupling bolts with nuts for the crank shaft.
16 exhaust valves complete with springs etc. ready for fitting.
8 exhaust valve seats.
One air inlet valve complete with springs &c. ready for fitting.
2 starting air valves complete " " " " " "
8 fuel injection valves " " " " " "
8 spindles for fuel injection valves.
8 bottom end fuel injection valves.
1 roller with pin for exhaust valve guide arms.

2.

- 1 roller with pin for air inlet valve guide arms.
- 1 roller with pin for starting valve guide arms.
- 1 roller with pin for fuel injection valve guide arms.
- 2 plunger pistons for the fuel oil pumps.
- 2 delivery valves for the fuel oil pumps.
- 1 scraping ring with springs for the fuel oil piston.
- 24 packing rings for the fuel oil pump.
- 2 spindles for the overflow valves to the fuel oil valves.
- 3 thermometers for the cooling water discharge.
- 1 telescope tube and packing for the piston cooling.

Main air compressor.

- One set of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 pair of crosshead brasses.
- 6 L.P. suction valves with springs complete.
- 6 L.P. delivery " " " "
- 2 M.P. suction " " " "
- 2 M.P. delivery " " " "
- 2 H.P. suction " " " "
- 2 H.P. delivery " " " "
- 2 sets of L.P. piston packing rings.
- 2 " " M.P. " " "
- 2 " " M.P. " scraping rings.
- 2 " " H.P. " packing rings.
- 2 " " H.P. " scraping rings.
- 2 H.P. air cooling coils with flanges and unions complete.
- 2 safety discs for the H.P. air compressor.
- 3 safety caps for the fuel oil valves.
- 2 covers for the safety caps.
- 4 safety caps for the starting air valves.
- 2 fusable plugs for high pressure air receivers.
- 5 valve discs and spindles for the high pressure air receivers.



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

Auxiliary Diesel Oil Engines.

- 1 cylinder cover complete with studs and nuts for fastening of valves etc.
- 1 set of studs and nuts for one cylinder cover for fastening of valves etc.
- 1 Cylinder liner.
- 1 trunk piston complete with packing rings and crosshead pin.
- 18 piston packing rings.
- 3 piston scraping rings.
- 1 pair of main bearing brasses.
- 4 main bearing studs and nuts.
- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts with nuts.
- 6 exhaust valves complete with springs etc. ready for fitting.
- 4 exhaust valve seats.
- 4 fuel injection valves complete with springs etc. ready for fitting.
- 2 fuel injection valves and spindles.
- 1 starting air valve complete with springs etc. ready for fitting.
- 1 roller with pin for fuel injection valve guide arm.
- 1 roller with pin for exhaust valve " "
- 1 roller with pin for starting valve " "
- 3 suction valves for the oil fuel pump.
- 3 delivery valves " " " " "
- 3 plunger pistons " " " " "
- 9 packing rings for the oil fuel pump pistons.

Auxiliary air compressors.

- 4 L.P. piston packing rings.
- 5 M.P. " " "
- 2 M.P. " scraping rings.



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- 7 H.P. piston packing rings.
- 1 H.P. " scraping ring.
- 6 L.P. suction valves with springs complete.
- 5 L.P. delivery valves " " "
- 2 M.P. suction " " " "
- 2 M.P. delivery " " " "
- 2 H.P. suction " " " "
- 2 H.P. delivery " " " "
- 1 H.P. air cooling coil with flange and union complete.
- 2 copper safety discs for H.P. compressor cylinders.

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

A number of assorted india rubber packing rings suitable for all sizes used at the engines and 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 Krupp's and Palmetto packing.

A quantity of assorted bolts and nuts.

Small spare air compressor.

- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 pair of connecting rod top end brasses.
- 2 connecting rod top end bolts and nuts.
- 1 set of packing rings for the steam piston.
- 1 delivery valve for compressor.
- 1 spring for do. do.
- 1 L.P. delivery valve with spring etc. complete for compressor.
- 3 L.P. piston packing rings for compressor.



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7 H.P. piston packing rings for compressor.

7 intermediate piston packing rings.

Dynamos and Electro Motors.

1 set of brushes for one dynamo.

1 " " brushholders for one dynamo.

1 set of flexible connections for brushes for one dynamo.

1 " " field coils " " " " " "

1 set of field coils for the electro motor working the fuel oil and lubricating oil pump.

1 set of brushholders for the electro motor working the fuel oil and lubricating oil pump.

1 set of brushes for do. do.

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

25 per cent flexible connections for the electro motor working the fuel oil and lubricating oil pump.

1 ball bearing for do. do. do. do.

Main engine bilge pump.

One suction valve disc. and seat.

One delivery " " " " .

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DYNAMO
ELECTRO MOTOR
FIELD COILS
BRUSHES
BRUSHHOLDERS
FLEXIBLE CONNECTIONS
BALL BEARING
BRASS TUBES
FUEL OIL AND LUBRICATING OIL PUMP



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