

List of Spare Gear for the Machinery of Screw Motor
Vessel "BRETAGNE" of Copenhagen.

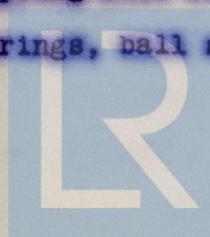
Burmeister & Wain's Yard No. 355.

" " Eng. No. 1430.

Copenhagen Report No.

Main Diesel Oil Engine:-

- 1 cylinder cover complete with all studs and nuts for fastening of valves, cylinder liner, water jacket etc.
- 1 cylinder liner.
- 1 complete set of studs and nuts for one cylinder cover.
- 1 piston complete with piston rings and piston rod fitted on.
- 2 sets of piston rings.
- 2 piston scraping rings.
- 1 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 2 pair of crosshead bearing bolts and nuts.
- 4 crosshead bearing bolts and nuts.
- 1 set of bolts and nuts for one crank shaft coupling.
- 3 studs and nuts for one crank shaft coupling.
- 1 set of bolts and nuts for one intermediate shaft coupling.
- 1 air inlet valve complete with spring etc. ready for use.
- 6 exhaust valves complete with springs, ball spindles etc.
ready for use.



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2.

- 3 exhaust valve discs and spindles.
- 3 bottom parts for exhaust valve chests.
- 1 starting air valve complete with spring, ball spindle etc.
ready for use.
- 3 oil fuel injection valves complete with springs, ball spindles
etc. ready for use.
- 3 oil fuel injection valve discs and spindles.
- 3 bottom parts for oil fuel injection valves.
- 2 safety caps for the oil fuel injection valves.
- 1 shield cap for the safety caps for oil fuel injection valves.
- 10 stuffing box packings for oil fuel injection valve spindles.
- 1 guide roller with pin for the oil fuel injection valve gear.
- 1 " " " " " " starting air valve gear.
- 1 " " " " " " air inlet valve gear.
- 1 " " " " " " exhaust valve gear.
- 1 lever for the oil fuel injection valve gear.
- 1 " " " starting air valve gear.
- 1 " " " exhaust valve gear.
- 1 " " " air inlet valve gear.
- 1 plunger piston for the oil fuel pressure pump.
- 1 suction valve disc for the oil fuel pressure pump.
- 1 delivery valve disc " " " " " "
- 5 packing rings oil fuel pressure pump pistons.
- 1 telescopic pipe for the piston cooling.
- 4 chain links for the chain to the cam shaft gear.

Main air compressor:-

9 H.P. piston rings.



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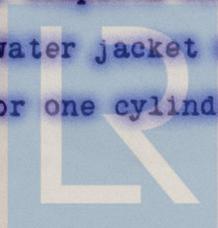
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- 1 H.P. piston scraping ring.
- 5 M.P. piston rings.
- 1 M.P. piston scraping ring.
- 4 L.P. piston rings.
- 1 H.P. suction valve complete with seat, spring etc.
- 1 H.P. delivery " " " " " "
- 1 M.P. suction " " " " " "
- 1 M.P. delivery " " " " " "
- 7 L.P. suction " " " " " "
- 5 L.P. delivery " " " " " "
- 1 H.P. suction valve disc.
- 1 H.P. delivery " "
- 1 M.P. suction valve disc.
- 1 M.P. delivery valve disc.
- 7 L.P. suction valve discs.
- 5 L.P. delivery valve discs.
- 1 copper H.P. air cooling coil with flange and union ready for use.
- 2 safety caps to the starting air receiver.
- 7 valve spindles of each design used for the valve chest on the injection air bottles.
- A number of springs suitable for each size used at the main engine and the main air compressor.

Auxiliary Diesel Oil Engines:-

- 1 combined cylinder cover and liner complete with all studs and nuts for fastening of valves, water jacket etc.
- 1 complete set of studs and nuts for one cylinder cover.



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4.

- 6 piston rings.
- 1 piston scraping ring.
- 2 pair of main bearing brasses.
- 2 main bearing studs and nuts.
- 1 pair of crank pin bearing brasses.
- 2 crank pin bearing bolts and nuts.
- 1 crosshead bearing gudgeon bush.
- 1 air inlet valve complete with springs etc. ready for use.
- 3 exhaust valves complete with springs etc. " " "
- 2 exhaust valve discs.
- 2 oil fuel injection valves complete with springs etc. ready for use.
- 2 oil fuel valve discs and spindles.
- 6 packing rings for the oil injection valve spindles.
- 1 spindle for the overflow valve.
- 2 safety caps for the oil fuel injection valves.
- 1 shield cap for the safety caps for oil fuel injection valves.
- 2 plunger pistons for the oil fuel pressure pump.
- 8 packing rings for the oil fuel pressure pump piston.
- 1 suction valve for the oil fuel pressure pump.
- 1 delivery valve for the oil fuel pressure pump.

Auxiliary air compressors.

- 13 H.P. piston rings.
- 2 H.P. " scraping rings.
- 5 M.P. piston rings.
- 2 M.P. piston scraping rings.



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- 8 L.P. piston rings.
 - 2 L.P. piston scraping rings.
 - 8 intermediate packing rings.
 - 2 H.P. suction valves complete with seats, springs etc.
 - 2 H.P. delivery " " " " " "
 - 1 M.P. suction valve complete with seat, spring etc.
 - 1 M.P. delivery " " " " " "
 - 3 L.P. suction valves complete with seats, springs etc.
 - 2 H.P. suction valve discs.
 - 2 H.P. delivery valve discs.
 - 1 M.P. suction valve disc.
 - 1 M.P. delivery valve disc.
 - 3 L.P. suction valve discs.
 - 3 L.P. delivery valve discs.
- A number of springs suitable for each size used at the auxiliary engine and auxiliary air compressors.

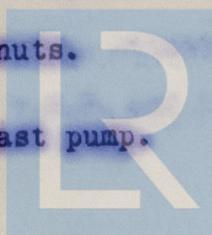
A number of assorted india rubber packing rings suitable for each size used at the engines and air compressors.

A quantity of "Krupps" and "Palmetto" patent packing material.

Various length of steel and copper pipes of each size used for the fuel delivery and injection air pipes to the main and auxiliary power cylinders, and the air delivery from the main and auxiliary compressors to the receivers, with unions, cone-ends, flanges etc. suitable for each.

A quantity of assorted bolts and nuts.

1 suction valve disc for the ballast pump.



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0246 5/7

6.

- 1 delivery valve disc for the ballast pump.
- 1 suction valve with seat and spring for the bilge and sanitary pump.
- 1 delivery valve with seat and spring for the bilge and sanitary pump.
- 1 spring for the escape valve for the bilge and sanitary pump.
- 1 ball bearing for the bilge and sanitary pump.
- 2 ball bearings for the cooling water pumps.
- 1 roller bearing for the lubrication oil pump.
- Various springs suitable for the sizes used for the escape valves to pump etc.
- 1 propeller shaft with nut.
- 1 cast iron propeller.

Donkey Boiler.

- One safety valve spring.
- One feed check valve disc.
- 6 water gauge glasses.
- 1 atomizer for the oil fuel burner.
- 1 set of valves with springs for the fuel pump.

Dynamos and Electro Motors.

- 1 set of carbon brushes for the 66 K.W. dynamo.
- ½ set of brush holders " " " " "
- 1 set of carbon brushes for the 33 K.W. dynamos.
- ½ set of brush holders " " " " "
- 1 set of carbon brushes, ½ set of brush holders and 1 ball bearing for each of 20 H.P., 15 H.P., 9 H.P. and 5 H.P. electro motors.

A quantity of fuses, lamps, lamp holders, contact fingers etc.
for the electric installation.



Handwritten notes in Cyrillic script, including the word 'ЭЛЕМЕНТЫ' (Elements).



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0246 1/7

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List of Spare Gear for the
machinery of the
Motor Vessel "BRETAGNE"
of Copenhagen

Barrmister & Wain's Yard N^o: 355.
" " " " Eng. N^o: 1430.

Copenhagen Report N^o: 7727.



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