

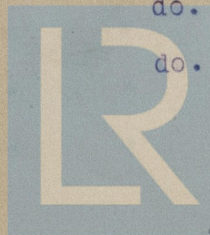
List of Spare Gear for the machinery of the  
Twin Screw Motor Vessel "D a n m a r k" of Copenhagen.

Burmeister & Wain's Yard No. 337  
" " " Eng. Nos. 1188 & 1189.

Copenhagen Report No.

Main Diesel Oil Engines.

- 1 Cylinder cover complete with studs and nut for fastening of valves, cylinder liner and water jackets.
- One complete set of studs and nuts for one cylinder cover.
- One piston with packing rings complete and with piston rod complete connected on.
- 24 piston packing rings.
- 3 piston scraping rings.
- 1 scraping ring to the piston rods.
- 1 pair of main bearing brasses.
- 2 main bearing studs with nuts.
- 1 pair of main bearing brasses for the compressor crank shaft.
- 2 connecting rod bottom-end top brasses.
- 2 connecting rod bottom-end bolts and nuts.
- 4 connecting rod top-end bottom brasses.
- 2 connecting rod top-end bolts and nuts.
- 1 set of coupling bolts with nuts for the crank shafts and tunnel shafting.
- 2 starting air valves with springs &c. complete ready for fitting.
- 8 spindle rings for the starting air valves.
- 6 oil fuel injection valves with springs &c. complete ready for fitting.
- 4 valve spindles for the oil fuel injection valves.
- 6 bottom pieces for do. do.
- 9 safety cabs for do. do.



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2.

- 12 packing rings for the oil fuel injection valves.
- 12 exhaust valves with springs etc. complete, ready for fitting.
- 4 valve seats for the exhaust valves.
- 4 nuts for the exhaust valve discs.
- 1 air inlet valve with springs etc. complete, ready for fitting.
- 2 spindles for the oil fuel overflow valves.
- 2 shields for the safety cabs to the oil fuel injection valves.
- 1 guide roller with pin for the starting air valve gear.
- 1 " " " " for the air inlet valve gear.
- 1 " " " " for the oil fuel injection valve gear.
- 1 " " " " for the exhaust valve gear.
- 1 disc for the safety valves on cylinder covers.
- 1 chain for the camshaft gearing.
- 2 telescope pipes with jointing flanges to the pistons.
- 1 stuffing box for the telescope pipes.
- 1 pet valve to the air vessels for telescope pipes.
- 2 regulator shafts with levers etc. for the oil fuel pumps.
- 6 plunge pistons for the oil fuel pumps.
- 20 stuffing box packing rings to the pistons for oil fuel pumps.
- 6 suction valves to the oil fuel pumps.
- 6 delivery valves to the oil fuel pumps.

Main air compressors.

- 1 connecting rod bottom-end top brass.
- 4 L.P. piston packing rings.
- 5 M.P. " " "
- 1 M.P. " scraping ring.
- 7 H.P. " packing rings.
- 1 H.P. " scraping ring.
- 10 L.P. suction valves with seats and springs complete.
- 9 L.P. delivery " " " " " "
- 2 M.P. suction " " " " " "
- 2 M.P. delivery " " " " " "
- 2 H.P. suction " " " " " "
- 2 H.P. delivery " " " " " "



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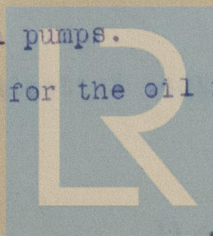


3.

- 1 cover with set screw for L.P. delivery valves.
- 1 cover with set screw for M.P. suction valves.
- 1 cover with set screw for M.P. delivery valves.
- 1 cover with set screw for H.P. delivery valves.
- 2 H.P. copper air cooling coils with flanges and unions ready for fitting.
- 3 non-return valves.
- 6 safety cabs for the starting air pipes.
- 2 safety discs for the cylinders.
- A number of springs suitable for all sizes used at the main engines and the main 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 with nuts.
- 1 pair of crosshead brasses.
- 1 set of studs and nuts for one cylinder cover for fastening of valves etc.
- 12 piston packing rings.
- 2 piston scraping rings.
- 4 exhaust valves complete with springs etc. ready for fitting.
- 2 exhaust valve discs.
- 2 oil fuel injection valves complete with springs etc. ready for fitting.
- 2 spindles for the oil fuel injection valves.
- 1 spindle for the oil fuel overflow valves.
- 6 packing rings for the oil fuel injection valves.
- 2 safety cabs for the oil fuel injection valves.
- 1 shield for the safety cabs to oil fuel injection valves.
- 1 trunk piston for the oil fuel pumps.
- 3 packing rings to the pistons for the oil fuel pumps.



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4.

- 1 suction valve for the oil fuel pumps.
- 1 delivery valve for the oil fuel pumps.

Auxiliary Air Compressors.

- 1 pair of connecting rod bottom end brasses.
- 2 connecting rod bottom end bolts and nuts.
- 1 bush for the crosshead pin.
- 4 L.P. piston packing rings.
- 5 M.P. piston packing rings.
- 2 M.P. piston scraping rings.
- 7 H.P. piston packing rings.
- 1 H.P. piston scraping ring.
- 3 L.P. suction valves with seats and springs complete.
- 2 L.P. delivery valves with seats and springs complete.
- 1 M.P. suction valve with seats and springs complete.
- 1 M.P. delivery valve with seats and springs complete.
- 1 H.P. suction valve with seats and springs complete.
- 1 H.P. delivery valve with seats and springs complete.
- 1 safety disc for H.P. cylinder covers.
- 1 H.P. copper air cooling coil with flange and union ready for fitting.

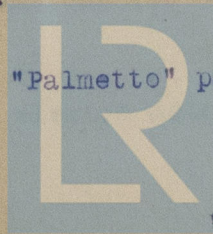
A number of springs suitable for each size used at the auxiliary engines and auxiliary air compressors.

- 7 spindles for the valves on the high pressure air receivers.

A number of assorted india rubber packing rings suitable for each size 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 compressor to the receivers with unions, cone-ends and flanges suitable for each size used.

A quantity of "Krupp's" and "Palmetto" packing material.



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5.

A quantity of assorted bolts and nuts.

One suction valve disc with seat and spring for main engine  
bilge pump.

One delivery valve disc with seat and spring for main engine  
bilge pump.

One wing with guide blocks for the rotary ballast pump.

One suction valve disc with seat and spring for the bilge and  
sanitary pump.

One delivery valve disc with seat and spring for the bilge and  
sanitary pump.

One ball bearing for the bilge and sanitary pump.

One spring escape valve of bilge and sanitary pump.

2 ball bearings for the cooling water pumps.

One spring for escape valves at cooling water pumps.

One spring for escape valves at the lubricating oil cooler.

One spring for the safety valves at the starting air receiver.

One propeller shaft with nut.

2 cast iron propellers.

#### Donkey Boiler.

One safety valve spring.

One feed check valve disc.

One automizer for the oil fuel burner.

$\frac{1}{4}$  set of valve disc with seats and springs for the feed pump.

#### Dynamos and Electromotors.

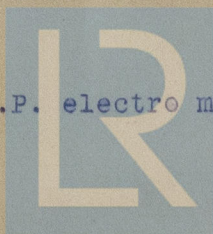
1 set of carbon brushes for one of the 65 K.W. dynamos.

$\frac{1}{4}$  set of brush holders with flexible connections for one of the  
dynamos.

1 set of carbon brushes for one 25 H.P. electro motor.

$\frac{1}{4}$  set of brush holders with connections for one 25 H.P. electro  
motor.

One ball bearing for one 25 H.P. electro motor.



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6.

set of carbon brushes for one of the 12 & 15 H.P. electro motors.

set of brush holders with connections for one of the 12 & 15  
H.P. electro motors.

ball bearing for one of the 12 & 15 electro motors.

set of carbon brushes for one 6 H.P. electro motor.

set of brush holders with connections for one 6 H.P. electro  
motor.

ball bearing for one 6 H.P. electro motor.

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



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