

S P A R E - G E A R

for the machinery of

Steel Twin Sc. 4 Mst. Sr. "F I O N I A" of Copenhagen.

(Burmeister & Wain's Yard No.293.)

Main Diesel Engines :

- 2 pair of main bearing brasses.
- 4 main bearing bolts with nuts.
- 4 Crank pin top brasses.
- 4 connecting rod bottom-end bolts and nuts.
- 4 crosshead bottom brasses.
- 4 connecting rod top-end bolts and nuts.
- 1 piston complete with rod and nut.
- 24 Ramsbottom piston rings.
- 1 valve chest with valves complete for the marking air bottles.
- 12 packing rings for the telescope pipes.
- 12 exhaust valve chests, with valves, seats, springs etc. complete
- 3 exhaust valves with spindles.
- 2 starting valve chests with valves, seats, springs etc. complete.
- 4 fuel valve chests with do. do. do. do.
- 2 rollers complete for air-inlet- valves.
- 2 do. do. for exhaust valves.
- 2 do. do. for starting valves.
- 2 do. do. for fuel valves.
- 1 fuel pump complete.
- 20 studs with nuts for cylinder covers.
- 4 spindles for valves on the air-bottles.
- 10 packings for the oil pump to the reversing gear.
- 40 packings for the fuel pumps.
- 2 kg. Planet packing for fuel valves.
- 4 studs for rollers to air-inlet valve gear.
- 4 do. for do. to exhaust valve gear.



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- 2 studs for rollers to the fuel valve gear.
- 2 do. for do. to the starting valve gear.
- 6 springs for air-inlet-valves.
- 6 do. for exhaust-valves.
- 6 do. for fuel valves.
- 6 do. for starting valves.
- 6 do. for starting valve pistons.
- 6 do. for safety valve on cylinder covers.
- 6 do. for lifting gear to the exhaust valves.
- 6 do. for delivery valves on fuel pumps.
- 6 do. for suction valves on fuel pumps.
- 1 do. for safety valves.
- 6 do. for non-return valve.
- 1 do. for the pawl arm to "Aspinalls" governors.
- 1 do. for the "Aspinalls" governors.
- 2 do. for adjusting gear.
- 2 do. for delivery valve to oil pump.
- 2 do. for suction valve to do.
- 2 do. for handle for reversing gear.
- 2 do. for starting valve for reversing gear.
- 1 do. for starting air slide-valve.
- 2 do. for levers to the starting air slide-valve.
- 1 do. for regulator to fuel pumps.
- 2 do. for spare air bottles.

Main air compressor :

- 8 Ramsbottom piston rings for H.P. piston.
- 5 do. do. do. for M.P. do.
- 4 do. do. do. for L.P. do.
- 4 M.P. suction valves complete.
- 4 M.P. delivery valves complete.
- 8 L.P. suction valves complete.
- 6 L.P. delivery valves complete.
- 2 H.P. suction valves complete.
- 2 H.P. delivery valves complete.
- 2 springs for H.P. suction valves.
- 2 do. for H.P. delivery valves.



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- 2 springs for safety valves.
- 10 do. for M.P. suction valves.
- 10 do. for M.P. delivery valves.
- 8 do. for L.P. suction valves.
- 10 do. for L.P. delivery valves.
- 2 do. for blow-out valves.
- 1 copper coil for the H.P. air-cooler.
- 1 flange.
- 1 union.
- 20 tubes for the M.P. air-cooler.
- 10 do. for the L.P. air-cooler.
- 6 covers for the L.P. delivery valves.

Auxiliary Diesel Engines.

- 1 pair of crank pin brasses.
- 1 pair of cross-head brasses.
- 1 pair of main bearing brasses.
- 2 connecting rod bottom-end-bolts with nuts.
- 4 main bearing bolts and nuts.
- 8 exhaust valve chests with valves, seats and springs complete.
- 2 fuel valve chests with valves, seats and springs complete.
- 14 Ramsbottom piston rings.
- 8 studs with nuts for cylinder covers.
- 2 exhaust valves.
- 2 pistons for fuel pumps.
- 1 suction valve for fuel pumps.
- 1 delivery valve for do. do.
- 20 packings for fuel valves.
- 12 do. for fuel pump piston.
- 12 do. for regulating piston.
- 8 springs for exhaust valves.
- 8 do. for air-inlet-valves.
- 4 do. for starting valves.



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- 2 springs for safety valves.
- 10 do. for M.P. suction valves.
- 10 do. for M.P. delivery valves.
- 8 do. for L.P. suction valves.
- 10 do. for L.P. delivery valves.
- 2 do. for blow-out valves.
- 1 copper coil for the H.P. air-cooler.
- 1 flange.
- 1 union.
- 20 tubes for the M.P. air-cooler.
- 10 do. for the L.P. air-cooler.
- 6 covers for the L.P. delivery valves.

Auxiliary Diesel Engines.

- 1 pair of crank pin brasses.
- 1 pair of cross-head brasses.
- 1 pair of main bearing brasses.
- 2 connecting rod bottom-end-bolts with nuts.
- 4 main bearing bolts and nuts.
- 8 exhaust valve chests with valves, seats and springs complete.
- 2 fuel valve chests with valves, seats and springs complete.
- 14 Ramsbottom piston rings.
- 8 studs with nuts for cylinder covers.
- 2 exhaust valves.
- 2 pistons for fuel pumps.
- 1 suction valve for fuel pumps.
- 1 delivery valve for do. do.
- 20 packings for fuel valves.
- 12 do. for fuel pump piston.
- 12 do. for regulating piston.
- 8 springs for exhaust valves.
- 8 do. for air-inlet-valves.
- 4 do. for starting valves.



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- 4 springs for fuel valves.
- 6 do. for valve levers.
- 1 do. for governors.
- 4 do. for eccentric handles.
- 4 do. for non-return valves on fuel distributors.
- 2 do. for safety valves for fuel distributors.
- 1 do. for fuel pump suction valves.
- 1 do. for do. delivery valves.
- 4 do. for safety valves on cylinder covers.
- 1 do. for non-return valve on fuel pump.
- 1 do. for safety valve on fuel pump.
- 2 H.P. delivery valves complete for the air compressor.
- 2 H.P. suction valves complete for do. do.
- 2 L.P. delivery valves complete for do. do.
- 5 H.P. piston rings for air compressor.
- 6 L.P. do. do. for do. do.
- 1 spring for H.P. suction valve for air compressor.
- 1 do. for H.P. delivery valve for do.
- 1 do. for L.P. delivery valve for do.
- 1 do. for safety valve for the air compressor.

Reavells auxiliary air compressor :

- 4 suction or delivery valves complete.
- 2 brass-bush for connecting rod.
- 1 copper coil for the air-cooler.
- 5 special screw spanners.
- 5 H.P. piston rings.
- 1 M.P. do. ring
- 4 pilot piston rings.
- 2 L.P. do. do.
- 7 valve seats.
- 14 springs
- 6 valves.
- 13 springs.



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Auxiliary machinery :

- 1 set of valves with seats for one bilge pump.
- 1 do. of do. with do. for sanitary pumps.
- 1 do. of wings for the rotary wash deck pumps.
- 1 do. of do. for two rotary oil pumps for the forced lubrication.
- 1 do. of do. for the rotary ballast pump.
- 1 do. of do. for do. oil fuel pump to the daily supply tank.

The ordinary oil motor:

- 1 pair of crank pin brasses.
- 1 set of piston rings.
- 1 spring for each size of safety valves.
- 1 ignition bulb complete.

Donkey Boiler :

- 1 spring for safety valves.
- 1 feed check valve.
- 1 sprayer for the oil burner.
- $\frac{1}{2}$ set of valves for the feed pump.
- 6 water gauge glasses.

Shafting :

- 1 propeller shaft with nut.
- 1 set of coupling bolts and nuts.
- 2 cast iron propellers.

- A quantity of assorted bolts and nuts.
- Iron of various sizes.

Refrigerating machinery :

- 1 compressor piston and rod.
- 2 suction valves.



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- 2 delivery valves.
- 6 springs for valves.
- 12 safety membranes.
- 6 set of leather packings for the piston.
- 6 set of packings for the piston rods.
- 6 set of fibre packings for all joints.
- Packing material for all stuffing boxes.
- 1 carbonic acid manometer.
- 1 thermometer for each size.
- 1 pair of main bearing brasses complete.
- 1 do. of connecting rod bottom-end brasses.
- 1 do. of do. do. top end brasses.
- 1 set of do. do. bottom-end and top-end bolts.
- 1 set of valves and springs for the circulating pump.

Various spare gear for the electric dynamos and motors,
and for the electric lighting and power installation.



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