

SPARE GEAR

F O R

ORDER NO. 5012 - S.S. "STATENDAM."



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S P A R E   G E A R .TURBINES:

- 1 Set bearing bushes for rotors of each size.
- 1 " " " " gear wheel shaft.
- 1 " " " " pinions of each size.
- 1 " " pads for one face of adjusting blocks of each size fitted.
- 1 " " liners for each adjusting block of different thicknesses.
- 2 Bolts and nuts (or studs and nuts) for each size of rotor bearing.
- 2 " " " " " " " " for main gear wheel bearing.
- 2 " " " " " " " " for each size pinion bearings.
- 1/20 " " " " " " " " fitted for gear case joints.
- 1/20 " " " " " " " " fitted for turbine casing.
- 1/20 Blading material (including shrouding strips, blading stops)
- 2 Thermometers.
- 1 Escape valve spring of each size.
- 1 Complete set of glasses for oil flow indicators.
- 1 " " " " for oil drain fittings for turbines.
- 1 Flexible disc for each stop valve so fitted.
- 50 Main condenser tubes.
- 100 Ferrules and packing for main condenser tubes.



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OUTFIT FOR TURBINES.

lifting gear for turbine covers and rotors and gear case covers.

Gauges for testing the wear down and the truth of rotors, pinions and gear wheel shafts.

Suitable adjusting gear.

1 Set of poker or other suitable gauges for gauging axial position of rotor relative to cylinder.

Other gauges for turbines as may be required.

Handreels for white-metalling bearings.

Lifting gear for removal of bottom halves of bearings.

Gear for water testing turbines.

Complete set of spanners, eyebolts and other tools, as required for turbines and turbine gear.

1 Set of blading tools.

1 Framed sheet giving instructions regarding gearing bearings.

1 Framed sheet giving running clearances in turbine bearings and adjusting blocks, blade and bridge gauge clearances.

The sheets and gauges to be supplied in a suitable box.

1 Liqueured leather joint washers for gearing oil sprayers, 1 set for one turbine.

1 Set of Profile gauges for gearing teeth.

LIFTING:

2 Propeller shafts (1 port and 1 starboard), to be stowed in tunnel.

1 Set tunnel shaft coupling bolts and nuts for one coupling of each size.

2 Propeller bosses (1 port and 1 starboard) complete with studs and nuts.

6 Propeller blades (3 right and 3 left hand), manganese bronze, stowed in hold.

1 Set studs and nuts and locking screws for one propeller blade.

1 Set pads for one face of each thrust block.

1 Set of 3 adjusting rings of different thicknesses for each thrust block.



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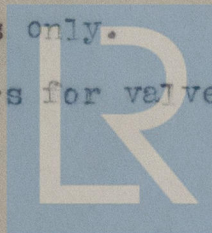
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ELECTRIC GENERATING SETS.

- 1 Cylinder head complete with liner and water jacket, but without valves.
- 1 Set of studs and nuts for one cylinder head.
- 1 Piston complete with gudgeon pin and rings.
- 1 Gudgeon pin.
- 4 Sets piston rings.
- 1 Pair connecting rod top end bushes.
- 1 " " " bottom " "
- 1 " " " " " bolts and nuts.
- 4 Main bearing studs and nuts.
- 2 Inlet valves with casings complete.
- 1 Inlet valve spindle.
- 8 Exhaust valves with casings complete.
- 8 " valve spindles with valve faces.
- 3 Starting valves with casings complete.
- 8 Fuel valves with " "
- 8 " valve spindles.
- 4 " " body seats.
- 3 " " spindle cases.
- 2 Spindles for overflow valves for fuel valves.
- 1 Cylinder relief valve complete.
- 2 Sets safety caps for one engine.
- 2 Rollers of each size with pins.
- 1 Length of chain of each size and of longest length fitted.
- 10 Chain links.
- 1 Complete set of springs for one engine.
- 12 Additional inlet and exhaust valve springs.
- 2 Governor springs.
- 1 H.P. compressor cylinder and head complete with valves fitted.
- 2 Sets air compressor valves, complete.
- 1 Set cages for air compressor valves.
- 8 H.P., 8 M.P. and 8 L.P. valves only.
- 8 " 8 " " 8 " springs for valves.



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ELECTRIC GENERATING SETS: (Contd.)

- 6 Fuel pump plungers.
- 12 Sleeves or packing for fuel pump plungers.
- 3 Suction and 3 delivery valves for fuel pump.
- 1 Regulating lever for fuel pump.
- 2 Sets rubber rings for one engine and compressor.
- 4 Filters for lubricating pumps.

OUTFIT:

All necessary special tools and spanners for dismantling and overhauling electric generating engines to be supplied.

SPARE GEAR FOR AUXILIARIES, ETC.MAIN AIR PUMPS:

- 1 Pump rod and bucket complete with packing rings, valves and guards and nuts.
- 1 Head valve complete with valves and guards.
- 1 Foot " " " " "

FEED WATER FILTERS:

- 1 Complete set of cages for one twin filter.

MAIN FEED PUMPS (WEIR'S TYPE):

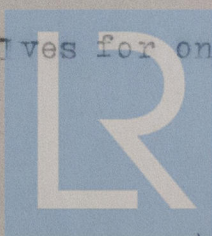
- 1 Set of suction and delivery valves, guards and seats.
- 1 " " rings for steam pistons
- 1 " " " " pump bucket.

FEED WATER HEATERS:

- 12 Tubes.
- 1 Tube expander.

LUBRICATION OIL PUMPS:

- 1 Set of suction and delivery valves for one pump.
- 1 Pump bucket.



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COOLERS:

Tubes.

Ferrules and packing.

IRIGATION OIL FILTERS:

2 Set of cages for each filter.

EVAPORATOR AND DISTILLING PLANT:

Impeller and spindle for circulating pump.

Set pump bushes " " "

Impeller and spindle for fresh water pump.

Set pump bushes for fresh water pump.

Set bearing bushes for electric motor.

Set brushes for electric motor.

Set group valves for evaporator feed pumps.

Pump bucket " " " "

KEY BOILER:

Spring for safety valve.

Valve lid for feed check valve.

Water gauge glasses and 24 packing rings.

Tubes, ordinary.

Tube, stay.

Manhole joints.

Mudhole "

Firebrick quarl, 4 pieces.

FUEL INSTALLATION FOR DONKEY BOILER:

Burner, complete with strainer.

" nozzles.

" diaphragms.

" strainer cage.



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DONKEY BOILER FEED PUMP:

- 1/2 Set of valves, suction and delivery.
- 1 " " steam piston rings.
- 1 " " bucket rings.

FRESH WATER PUMPS FOR EACH SIZE PUMP:

- 1/2 Set of suction and delivery valves for one pump.
- 1/2 " " bucket rings for one pump.

BILGE PUMP:

- 1 Double thrust bearing.
- 1 Set air pump discharge valves and springs, complete.
- 1 " " " piston rings.
- 1 " " suction pump valves and springs complete.

BALLAST PUMP:

- 1 Double thrust bearing.
- 1 Set air pump discharge valves and springs, complete.
- 1 " " " piston rings.
- 1 " " suction pump valves and springs complete.

AUXILIARY CONDENSER:

- 6 Tubes.
- 12 Ferrules and packing.

REDUCING VALVES:

- 1 Disc for each size fitted.

ESCAPE VALVE SPRINGS:

- 1 of each size.

MAIN BOILERS:

- 8 Superheater tubes.
- 14 4" dia. inclined tubes.



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MAIN BOILERS (Contd.)

- 8 1.13/16" dia. inclined tubes.
- 2 4" dia. return tubes.
- 40 Handhole fittings complete for headers.
- 4 " " " " and drums.
- 3 Sets gaskets for handhole fittings for one boiler.
- 12 Gaskets for manhole doors in steam and water drums.
- 2 Safety valve springs of each size.
- 3 Internal valves for feed check valves of each size.
- 1 Feed water regulator valve, liner and float.
- 1 Set bricks and bolts.
- 1 Set baffles among tubes.
- 3 Smoke observation glasses.

OIL FUEL INSTALLATION:

- 9 Burners.
- 08 Burner tips.
- 36 Burner springs.
- 9 Flame controls.
- 9 Jacket tubes.
- 2 Suction strainer baskets.
- 2 Discharge " "
- 3 Brass cased thermometers.
- 9 Burner supply valves.
- 9 " " pipes.

OIL FUEL TRANSFER PUMP (of each size)

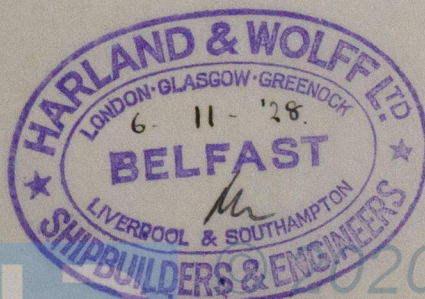
- 1/2 Set of valves for all pumps fitted.
- 1 Pump bucket.

OIL FUEL PRESSURE PUMPS, 5 TONS:

- 1 Set of valves for one pump.
- 1 Pump bucket.

OIL FUEL PRESSURE PUMPS, 3 TONS:

- 1 Set of valves for one pump.
- 1 Pump bucket.



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