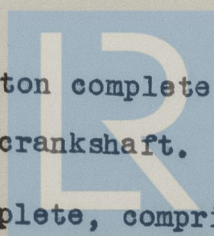


S P A R E G E A R.

MAIN ENGINES:

- 3 Cylinder liners and jackets complete ready for fitting. 29 NOV 1951
- 3 Cylinder covers complete without valves.
- 2 Sets studs and nuts for one cylinder cover.
- 3 Pistons complete with rings, studs and nuts.
- 6 Sets of piston rings (sufficient for 6 pistons).
- 6 Sets of scraper rings(" " " ").
- 12 Exhaust valves complete with housing & springs.
- 6 Inlet Valves " " " " "
- 6 Fuel Valves complete.
- 12 Fuel Valve Nozzles complete.
- 3 Starting air valves complete.
- 4 Fuel pump non-return valves.
- 2 Working halves of fuel pump cams.
- 6 Fuel pumps complete.
- 2 Rollers and pins for fuel pump plungers.
- 2 Cylinder relief valves complete.
- 1 Complete set of springs of each size fitted on one engine, except exhaust, inlet and fuel valve springs.
- 6 Exhaust valve springs (outer).
- 6 Exhaust valve springs (inner).
- 3 Inlet valve springs (outer).
- 3 Inlet valve springs (inner).
- 6 Fuel valve springs.
- 6 Fuel valve indicating rod springs.
- 2 Complete sets of joints of each size fitted on one engine.
- 1 Set gearwheels for camshaft drive for one engine.
- 1 Fuel valve test pump.
- ~~1 Connecting rod.~~
- 2 Sets of top end bearings complete with bolts and nuts for one connecting rod.
- 2 Pairs of bottom end bearings complete with bolts and nuts.
- 2 Pairs of main bearing bushes.
- 4 Main bearing studs and nuts.
- 2 Telescopic cooling pipes for one piston complete with fittings.
- 1 Set coupling bolts and nuts for one crankshaft.
- 3 Pressure charger delivery valves complete, comprising valves, seats, guards, etc.



- 3 Pressure charger suction valves complete, comprising valves, seats, guards, etc.
- 2 Sets of high pressure fuel oil filter cartridges.
- 1 Set high pressure fuel delivery pipes complete with flanges for one engine.
- 12 Links of each size of chain.
- 12 Starting air safety caps.
- 2 Pairs of camshaft bearings.
- 2 Starting air distributor spindles.
- 2 Gross assorted copper and composition washers.
- 10 feet of 1 m.m. thick brass strip 6 inch wide for liners.
- 10 feet of 2 m.m thick brass strip 6 inch wide for liners.
- 2 Complete sets of spares for cylinder lubricators.
- 2 Thrust block collars complete with white metal (1 port and 1 starboard).

GENERAL:

- 2 Bronze propellers (1 right and 1 left hand).
- 2 Propeller shafts complete with liners and nuts (1 port and 1 starboard).
- 1 set propeller and key-way templates.
- 1 set coupling bolts of each size used.
- 2 Bars each of 1/2", 3/4", 7/8" and 1" round mild steel.
- 6 Steel plates, assorted (total 5 cwt).
- 10% of bolts, studs and nuts.

OILERS:

- 18 Manhole door joints.
- 3 Dozen gauge glasses.
- 4 Dozen packing rings for gauge glasses.
- 2 Main check valve lids, seats and spindles.
- 2 Auxiliary check valve lids, seats and spindles.
- 1 Lid, seat and spindle for each other size valve.
- 50 Boiler tubes.
- 18 Boiler tube stoppers.
- 2 Safety valve springs.
- 2 Pressure Gauges.

ED WATER FILTERS:

- 1 Set of cages for each gravitation filter.
- 1 Set filtering media for pressure filter.

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0185 2/3

1 Set of cages for filter at hotwell.

COOLERS:

40 Tubes for main fresh water coolers.

40 " " auxiliary fresh water coolers.

40 " " main lubricating oil coolers.

AUXILIARY GENERATOR ENGINES (DIESEL 425 K.W.)

5 Cylinder liners complete with covers, studs and nuts, but without valves.

5 Pistons complete with gudgeon pins, but without rings.

6 Gudgeon pin bushes.

3 Pairs connecting rod lower end bushes complete with bolts and nuts.

2 Pairs main bearing bushes of each size fitted.

8 Main bearing studs and nuts.

2 Complete sets piston rings for one engine.

6 Fuel valves with casings and filters complete.

6 " " spindles.

6 " " nozzles.

6 " " spindle cases.

6 " delivery pipes.

6 Exhaust valves with casings and springs complete.

6 " " spindles.

3 Inlet valves with casings and springs complete.

2 Cylinder safety valves complete.

2 Complete sets of springs for one engine.

2 Additional sets of governor springs for one engine.

5 Fuel pump plungers and sleeves.

6 " " non-return delivery valves.

3 Complete sets of working parts for one fuel pump plunger.

6 Chain links of each size chain fitted.

2 Sets of rubber rings for one auxiliary engine but not more than 50 of any one size.

0 Tubes for lubricating oil cooler.

2 Sets of filter cartridges for one lubricating oil pump.

2 Sets of studs and nuts for one cylinder cover.

2 Sets of spares for cylinder lubricators.

AUXILIARY GENERATOR ENGINE (Diesel 120 K.W.)

Inlet valve with spring and collar.

Exhaust Valve with spring and collar.

- 1 Set of piston rings for one piston.
- 1 Set of studs and nuts for one cylinder head.
- 1 Gudgeon pin.
- 1 Connecting rod top end bush.
- 1 Connecting rod bottom end bearing.
- 2 Bolts for connecting rod bottom end bearing.
- 2 Main bearing bolts.
- 1 Fuel pump complete.
- 1 Fuel pipe with connections.
- 1 Relief valve.
- 1 Starting valve.
- 1 Atomiser.
- 3 Atomiser needle valves and guides.
- 1 set of heat exchanger small spares to Lloyd's requirements.

MANOEUVRING AIR COMPRESSORS:

- 3 Sets of piston rings for H.P. stage.
- 1 Set " " " " L.P. "
- 1 Complete set of valves for one compressor.
- 1 " " " springs " " "
- 12 H.P. cooler tubes.
- 12 L.P. " "
- 1 Pair bottom end brasses with bolts and nuts.
- 1 Pair top " " " " " "

AUXILIARY PUMPS:

- Lubricating Oil Pumps.
- Fuel Oil transfer Pump (Diesel Oil)
- Purified Oil Pump.
- Main Fresh Water Circulating Pumps.
- Auxiliary Fresh Water Circulating Pumps.
- Main Sea Water Circulating Pumps.
- Domestic Fresh Water Pumps.
- Bilge Pumps.
- Ballast Pump.
- General Service Pump.
- Condenser Air Pumps.



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0185 4/8

Sanitary Pump.

Feed Pumps

Oil Fuel Transfer Pumps (Boiler Oil)

- 1 Set pump valves and seats for each service of above pumps.
- 1 complete set of piston rings for each of above pumps.
- 1 " " " bucket " " " " " "

Lubricating Oil Pumps.

Main Fresh Water Circulating Pumps.

Auxiliary Fresh Water Circulating Pumps.

Main Sea Water Circulating Pumps

Domestic Fresh Water Pumps

Feed Pumps

- 1 Rod and bucket without rings for each of above services.
- 1 Steam chest for each of above services.

AUXILIARY CONDENSER CIRCULATING PUMPS.

- 1 Top end bearing with bolts for one engine.
- 1 Crankpin " " " " " "
- 1 Set main bearing brasses " " "
- 1 Set piston rings for each engine.
- 1 Piston rod for one engine.
- 1 Valve " " " "
- 1 Impeller and shaft for one pump.
- 1 Set wearing parts for impeller spindle packing for each pump.

CONDENSERS:

- 8 Condenser Tubes.
- 6 Condenser ferrules and packing.

FORCED DRAUGHT FAN ENGINES:

- 1 Piston complete for one engine.
- 1 Set piston rings for each piston.
- 1 Set top end bushes for each engine.
- 1 Set bottom end brasses with bolts for each engine.
- 1 Slide (or piston) valve for each engine.
- 1 Piston rod for one engine.
- 1 Slide valve rod for one engine.
- 1 Main bearing bolts for each engine.
- 1 Coupling bolts for one engine.

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OIL BURNING INSTALLATION:

The following or equivalent to be supplied:

- 2 Suction Strainer bags.
- 1 Discharge strainer bag for steam raising.
- 18 Burner bodies.
- 18 Burner Caps.
- 18 Burner nozzles, assorted.
- 08 Burner diaphragm.
- 18 Firebrick quarls.
- 6 Brass-cased thermometers.
- 12 Gauge glasses.
- 1 Steam valve chest complete for one oil fuel pump.
- 1 Set pump valves and seats for each pump.
- 1 Set gland packing for each pump.
- 1 Set steam piston rings for each pump.
- 1 Set oil bucket rings for each pump.
- 1 'U' tube heater with flexible piping for steam raising.

Tools for oil burning installation.

- 2 Starting spanners for oil fuel pumps.
- 1 Expander for heater tubes.
- 1 Tool for cleaning burners.
- 1 Set heater tube cleaners.
- 1 Torch and extinguisher.

EVAPORATING AND DISTILLING PLANTS:

(a) Evaporators.

- 1 Set coils, couplings and nuts for 3 evaporators.
- 6 Water level gauge glasses.
- 12 Packing rings for gauge glasses.
- 4 Springs for evaporator shell safety valve.
- 2 Springs for coil safety valve.

(b) Distilling Condenser.

- 10% Tubes for one distiller.
- 10% Ferrules for one distiller.
- 10% Packings for one distiller.

(c) Coil Drain Cooler.

- 10% Tubes for one cooler.

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0186 6/2

10% Ferrules for one cooler.

10% Packing " " "

(d) Evaporator feed pump.

1 Set Steam piston rings for one pump.

1 Set bucket rings for one pump.

1 Set valves and springs for one pump.

1 Steam valve chest for one pump.

1 Piston and pump rod with nut for one pump.

(e) Monotype Air Pump.

1 Set steam piston rings for one pump.

1 Set bucket rings for one pump.

1 Set pump valves for one pump.

1 Steam valve chest for one pump.

1 Piston and pump rod with nut for one pump.

(f) Distiller Circulating Pump.

1 Set steam piston rings for one pump.

1 Set bucket " " " " "

1 Set pump valves and springs for one pump.

1 Steam valve chest complete for one pump.

1 Piston rod and nut for one pump.

1 Pump rod and nut for one pump.

(g) Brine Pump.

1 Set steam piston rings for one pump.

1 Set bucket rings for one pump.

1 Set valves and springs for one pump.

1 Steam valve chest complete for one pump.

1 Piston and pump rod with nut for one pump.

OIL PURIFIERS:

2 Oil separator bowls.

Usual tools and makers additional spares.

PRESSURE GAUGES:

1 Pressure gauge of each type fitted.

THERMOMETERS.

1 - For piston cooling oil discharge.

1 - For cylinder cooling water discharge.



The following additional spare gear is to be supplied, at extra cost:-

Main Engines.

3 Piston rods, two of which are to be assembled to spare pistons.

NOTE:- The connecting rod specified on page ~~43~~ is now cancelled.

Boilers:

6 Stay tubes.

50 Plain tubes.

Oil Burning Installation:

10% Heater tubes.

1 Complete stack of heater tubes.

Evaporator:

12 Water level gauge glasses.

24 Packing rings for gauge glasses.

Air Compressors:

1 Steam piston complete with rod.

1 Compressor piston complete with rod.

1 Slide valve complete with rod.

Electric Generator Engines:

1 Cylinder liner.

1 Cylinder cover.

1 Piston.

1 Gudgeon pin.

6 Sets of piston rings for one piston, to be fitted on the six spare pistons. (This is in addition to the rings already specified).

3 Crankpin bearings complete. (total of six).

3 Sets of liners for crankpin bearings (total of six sets).

2 Connecting rods, with gudgeon pin bushes.

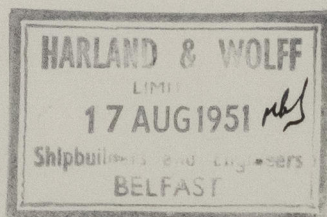
6 Fuel valve nozzles. (total of twelve)

6 Fuel valve nozzle caps (total of twelve).

1 Length of high pressure fuel delivery pipe.

3 Fuel pumps complete.

1 Chain for camshaft drive.



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0185 8/8