

ENGINES 1619

BOILERS 853

S. S. "SAMARIA".

SPARE GEAR.



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002340-002357-0171(1/9)

S. S. "Samaria".

Engines Nos. 1619.

Boilers Nos. 855.

SPARE GEAR LIST.

Spare propeller shaft with nut cased with wood, to be supplied as arranged by the Owners.

6 Adjusting liners for H.P., I.P., and L.P. Thrust Block.		✓
24 Pads for	-do-	✓
24 Pivot pins in pad.		✓
9 Carbon rings (in 3 segs) Angle section for H.P. Turbine Fd. and aft. Glands.		✓
4 Springs for Rect. Carbon rings	-do-	✓
9 " " Angle	-do-	✓
13 pairs Hooks and eyes for springs (in pairs) for Aft Glands	-do-	✓
4 Carbon rings (in 3 segs.) Rect.		-do- ✓
8 " " " 6 " L.P. Turbine Gland		✓
8 Springs (copper coated)	-do-	✓
8 pairs Hooks and eyes for springs	-do-	✓
16 Adaptors for hooks and eyes	-do-	✓
10 Carbon rings (in 4 segs) I.P. Turbine Gland.		✓
10 Springs (copper coated)	-do-	✓
10 pairs hooks and eyes for springs	-do-	✓
20 Adaptors for hooks and eyes	-do-	✓
2 H.P. Turbine Bearing Bushes, Top and bottom		✓
2 I.P.	-do-	-do- ✓
2 L.P.	-do-	-do- ✓
2 Main Gear Wheel Bearing Bushes, top and bottom.		✓
4 - 2nd Reduction Pinion	-do-	✓
2 H.P. & I.P. 1st Reduction pinion bushes, top and bottom.		✓
2 L.P. 1st	-do-	-do- ✓
1 set of 3 Kinghorn Valves - suction for Sanitary & Bilge Pumps.		
1 " " 3 " " discharge	-do-	
2 Valves for Bilge suction and discharge for Sanitary & Bilge Pumps.		
1 Spring for Escape Valve		-do-
2 Carbon Rings (in 4 segs.) for I.P. Diaphragms.		



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2 Bolts and nuts for H.P.Hor.Joint ✓
 1 D.N.bolt -do- ✓
 1 Differ bolt -do- ✓
 1 special -do-
 2 Studs and nuts -do-
 1 Differ.Bolt for I.P.Cyl.Hor.Joint.
 11 Bolts and nuts -do- ✓
 1 Special bolt ✓
 1 Diff.bolt for L.P.cyl.Hor.Joint.
 11 Ord.4 fitted Bolts and nuts for L.P.Cyl.Hor.Joint. ✓
 2 D.N.Bolts -do- ✓
 2 Studs and nuts $3/4 \times 2.3/8$ H.P.Turbine bearings. ✓
 2 -do- $7/8" \times 3$ I.P. -do- ✓
 2 -do- $3/4 \times 2.11/16$ -do- ✓
 2 Bolts and Nuts $3/4 \times 3$ -do- ✓
 1 Collar stud and nut $7/8 \times 3.1/2$ -do- ✓
 2 Stud and nut $1.1/8 \times 4$ L.P.Turbine bearings ✓
 2 " (from stock) $7/8 \times 3.3/8$ -do- ✓
 2 Bolts and nuts $7/8 \times 4$ -do- ✓
 1 Collar stud and nut $1.1/8" \times 4.5/8$ L.P.Turbine bearings ✓
 2 Studs and nuts $1.1/8 \times 4$ Gear Case H.P.1st Red.Bearings. ✓
 2 -do- (from stock) $3/4 \times 3.3/16$ -do- ✓
 2 -do- $1.3/8 \times 5.1/8$ Gear Case 2nd Red.Bearings. ✓
 2 -do- (from stock) $3/4 \times 3.11/16$ -do- ✓
 2 -do- $1.1/2 \times 5.7/8$ Gear case Main wheel bearings. ✓
 2 -do- (from stock) $3/4 \times 3"$ -do- -do- ✓
 5 per cent blading in finished lengths, with packing and shrouding complete.
 50 oil cooler tubes.
 2 Bolts and nuts for each size of rotor, main gear wheel and pinion bearings. ✓
 1 Set shaft coupling bolts and nuts - 9 off. ✓
 1 set of studs and nuts for one propeller blade, stowed in racks, 10 blade studs, 10 nuts and 10 lock pins.



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100 Condenser tube ferrules.

100 Condenser tubes, for main condensers.

20 Condenser tubes, for auxiliary condensers.

1 Escape valve spring for each size fitted - Total 15.

24 studs and nuts for condenser doors.

24 collar bolts.

Main thrust block pad pieces with pivots for same, sufficient for one ahead surface - 8 pad pieces and 8 pivots.

Thrust block adjusting liners, 3 in number.

1 Set springs for turbine glands, complete for H.P., I.P., L.P.,
Total - 4.

2 Complete sets of turbine blading tools.

TURBO FEED PUMP.

1 Pump impeller.

1 Bush suction liner.

1 Wheel fixing pin.

13 Copper washers.

2 pump packing rings.

1 Restriction plug for front end cover.

2 bearings with cot pieces.

1 shaft sleeve

6 nest of carbon packing segments, with springs.

1 pressure governor spring.

1 steam valve and seat.

1 stop gear spring.

1/2 lb. soft packing.

1 - 2" steam valve and seat.

DIRECT ACTING FEED PUMPS.

60 - 1½ spindle cut valves.

24 - Bronze Springs.

3 Ebonite pump bucket rings.

4 Lifting screws.

2 Spring pushers.

12 spare springs for U.S. packing.

4 steam piston rings.



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FORCED LUBRICATION PUMPS.

2 sets of Monello valves, with 52 - $1\frac{1}{2}$ springs ✓
steam piston rings.

3 spare springs.

" " pusher.

Lifting screws.

set of 3 spanners in rack.

MAIN CIRCULATING PUMPS (Turbo).

Pump impellers.

- 3" and 2 - 2" bearings with ced pieces.

shaft sleeves.

- 2" steam valve and seat.

nests of carbon packing rings with springs.

spare springs.

stop gear springs.

8 copper washers.

Sentinel valves.

Turbine valves.

BALLAST PUMPS (Steam & Motor Driven).

Rubber valves.

Brass valve guards.

brass valve studs.

spanners in rack.

BILGE PUMPS.

set of spanners in rack; 1 single ended $1\frac{1}{2}$; 1 double ended $\frac{1}{2}$ " and $5/8$; one double ended $\frac{3}{4}$ and $7/8$; one single ended $\frac{1}{4}$.

BILGE PUMP (Emergency - Motor-driven)

pump valves and 3 guards complete. ✓

spanners in rack.

AUXILIARY CIRCULATING PUMP.

pair crosshead brasses, with bolts and nuts.

pair crankpin brasses, with bolts and nuts.

spanners in rack.

EVAPORATING PLANT.

- $1\frac{1}{2}$ coils, with couplings and nuts for one evaporator.

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OIL FUEL INSTALLATION.

- 4 strainer bags for suction strainer.
- 4 " " " discharge "
- 14 spare thermometers.
- 36 Burner bodies.
- 2 Burner valves
- 6 Blank Union nuts.
- 1 - 8ft length of soft copper pipe.
- 18 cheek plates, 9 rt. and 9 left.
- 6 Crown plates.
- 36 Burner caps.
- 180 Burner nozzles.
- 180 Burner diaphragms.
- 1 - 3 flow auxiliary oil heater with discharge strainer
pressure gauges, also suction hose No.5 burner and cocks.
- 2 Expanders for heater tubes.
- 2 Tools for cleaning burners.
- 1 set of spanners for oil fuel pumps.

OIL FUEL TRANSFER PUMP &
OIL FUEL BILGE WELL PUMP

- 4 - 9.7/8 and 4 - 5.7/8 Ring Valves.
- 18 - 1½ springs
- 4 - 7" piston rings for 1 pump.
- 6 spanners.
- 2 levers in 2 racks.
- 2 Lifting screws.
- 2 Spring pushers and 2 springs.

FORCED DRAUGHT FANS.

- 1 Armature for motor.

SUPERHEATERS.

- 50 Jointing washers.
- 20 blank plugs for closing holes in headers.
- 10 studs and nuts.
- 5 dogs or clamps.
- 2 Box spanners.
- 1 pair of asbestos gloves.



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CLOSED FEED SYSTEM.

Main Air Ejector.

- 1 C.I.Protector, 1 Nozzle with holder for 1st stage and 12 Nozzles with holder for 2nd stage ejector.
- 1 G.M.valve seat, guard, washers, stud, nut and M.V.plate $4\frac{1}{2}$ dia.
- 1 Box spanner and pedger.
- 1 C.I.Protector, 3 Nozzles with holders for 1st stage and 7 Nozzles with holder for 2nd stage ejector.
- 2 G.M.Valveseats, guards, washers, studs, nuts and M.V.plate $4\frac{1}{2}$ dia.
- 6 - $5/8$ S.D.copper tubes $2'6.1/8"$ x 14 W.G.

Auxiliary Air Ejector.

- 1 C.I.Protector including 2 nozzles with holder.
- 1 G.M.valve, seat, guard, washer, nut, stud and monel plate valve.
- 15 S.D.copper tubes $17\frac{1}{4}"$ x $5/8"$ x 14 W.G.

Water Extraction Pumps.

- 2 Pump impellers.
- 6 Hoffman ball bearings.
- 4 Skefke ball bearings.
- 1 - $1\frac{1}{2}$ stem valve and seat.
- 2 sets of shaft sleeves.
- 8 nests of carbon rings, with springs.
- 2 special governor springs (2 step gear springs (Helical))
- 2 step gear springs (flat)
- 4 knock-out knob springs.

Heater Condenser.

- 167 tubes $4'2\frac{1}{4}"$ x $5/8"$ O.D. 8 W.G.
- 334 ferrules.
- 334 grommets for ferrules.
- 1 grommet guide.
- 1 ferrule driver.
- 1 packing tool.

Supplementary Feed Valves.

- 2 gland leathers.
- 2 steel springs.
- 1 Monel metal seat.
- 1 " " valve $1.3/8$ dia.



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1 copper float.

Overflow Valve.

2 gland cup leathers.

1 steel spring 15" long x 5" M.D. 9/16 Rd.sec.10 coils.

Main Surface Feed Water Heater.

80 - 1½ x 6'4½" x 12 W.G.Copper Tubes.

14 - 1" x 5'10½" x 12 W.G. -do-

The Cumberland Electrolytic System.

1 pair of ball bearings.

1 L.P.Brush holder.

1 set of H.T.brush holders.

1 - 150 amp.fuse carrier.

1 - 30 " " "

Oil Fuel Heating Drain Observation Tanks.

3 spare glasses.

Forced Lubrication Observation Glasses.

7 spare glasses.

Fresh Water and Washing Water Pumps.

8 rubber valves.

8 gunmetal valve guards.

2 spanners in rack.

Combined float tank and filter.

39 sponges.

Boilers.

48 Boiler door joints.

1 Gauge column.

50 Boiler plain tubes.

6 Boiler stay tubes.

2 Safety valves springs for single ended boiler.

3 " " " " double " "

24 Rings for boiler gauge glasses.

24 Gauge glasses.

1 Feed check valve for single ended boiler.

2 " " valves " double " "

2 Manhole doors.

50 Fire bricks.

2 cwt. of fire clay.

2 cwt. of lime, white slaked.

1 oil fuel flash point tester.

J. D. (H).



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