

SPARE GEAR

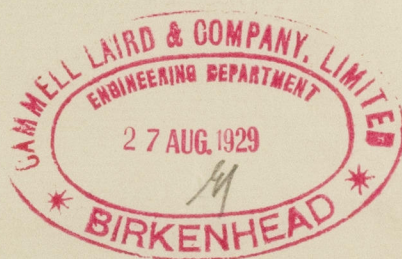
FOR

ENGINE NO. 954

AND

ENGINE NO. 956

All large spare gear, etc. to be fixed up on
bulkheads and no gear to be left loose.



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ORDERED
BY

SPARE GEAR

954 & 956

- D.O. 1 propeller shaft complete with nut and liner, fitted in position in tunnel.
- " 1 propeller, cast iron and steel mixture, fitted in place in tween decks.
- " 2 bottom end bolts and nuts, $3\frac{3}{8}$ ins. dia. 2 ft. 4 ins. overall length, fixed on bulkhead.
- " 2 top end bolts and nuts, $2\frac{1}{2}$ ins. dia. 18.11/16 ins. overall length, fixed on bulkhead.
- " 2 main bearing bolts with top and bottom nuts, fixed on bulkhead.
- " 6 coupling bolts and nuts, 3 ins. dia. body, screwed $2.5/8$ ins. dia. $9.3/4$ ins. overall length, fixed on bulkhead.
- " 6 casing cover studs, $1\frac{1}{8}$ ins. dia.
- " 6 cylinder cover studs, $1\frac{3}{8}$ ins. dia.
- " 10 junk ring set bolts, $1\frac{1}{8}$ ins. dia.
- " 6 feed pump valves.
- " 2 sets valve discs for bilge pump (3 discs per set)
- " 6 sets air pump head valve discs (3 discs per set)
- " 1 pressure gauge - 7 ins. 0 to 360 lbs. per sq. ins. Red line 180.

Iron plate.
Iron bars.
Bolts and nuts.

GAUGES AND TEMPLATES.

- E.S. 1 set templates for propeller and shafting, i.e. for cone, key, keyway and couplings.

FOR CONDENSERS.

- D.O. 20 tubes.
- " 30 ferrules.
- " 6 collar bolts, $7/8$ ins. dia.

FOR BOILERS.

- D.O. 2 doz. gauge glasses (for main boilers) Adamant.
- " 1 " " (for auxiliary boiler) Adamant.
- " 4 " India rubber washers for gauge glasses.
- " 4 tubes, plain, for main boilers.
- " 2 tubes, stay, " " "
- " 2 tubes, plain, " auxiliary boiler.
- " 84 firebars, plain, for main boilers.
- " 6 " wing, 3 R.H. & 3 L.H. for main boilers.

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RED
Y.

FOR BOILERS (CONTD)

954 & 956

- O. 66 firebars, plain, for auxiliary boiler.
6 " wing, 3 R.H. & 3 L.H. for auxiliary boiler.
1 set back bridges (Sturrock type - 178 in number)
1 Howden's furnace front.
S. 12 asbestos joints for main boilers.
" 6 " " " auxiliary boiler.
" 1 set iron templates for main and auxiliary boiler door joints.

FOR BOILER FEED PUMP (CARRUTHERS)

- O. 1/2 set pump valves, i.e. 2 suction and 2 delivery valves
(3 discs per valve)

FOR AUXILIARY BOILER FEED PUMP (CARRUTHERS)

- O. 1/2 set pump valves, i.e. 2 suction and 2 delivery valves
(3 discs per valve)

FOR SANITARY PUMP (CARRUTHERS)

- O. 1/2 set pump valves, i.e. 2 suction and 2 delivery valves
(3 discs per valve)

FOR BALLAST PUMP (DAWSON & DOWIE)

- O. 1/2 set pump valves, i.e. 2 suction and 2 delivery valves,
rubber.

FOR FORCED DRAUGHT FAN AND ENGINE (HOWDEN)

- O. 1 relief valve spring.

FOR FEED WATER HEATER (LIVERPOOL ENGRG. & COND.CO.)

- O. 1 spring for safety valve.

FOR EVAPORATOR (LIVERPOOL ENGINEERING & COND.CO.)

- O. 6 coils.
" 1 spring for safety valve.

FOR CIRCULATING PUMP (HENRY WATSON & SONS)

- " 1 impeller (gunmetal)
" 1 pump spindle and nut (Manganese bronze)
" 1 spring for relief valve.

FOR ASH HOIST.

- O. 3 piston cups.

For Distiller.

1. Spring for relief valve.



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HELICAL SPRINGS.

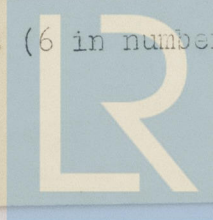
- 1 For boiler safety valve.
- 1 " superheater safety valve.
- 1 " reducing valve for steam to winches E.S.8.
- 1 " " " " " cabin heating E.S.43.
- 1 " " " " " dynamo engine E.S.31.
- 1 " " " " " refrig.engine E.S.30.
- 1 " relief " " " " cabin heating E.S.43
- 1 " " " " " dynamo engine E.S.31
- 1 " " " " " refrig.engine E.S.30
- 1 " escape valve for H.P. cylinder, 2 $\frac{1}{2}$ " dia. 9 coils, 6.3/4" long.
- 1 " escape valve for I.P. cylinder, 3.7/32" dia. 8 coils, 6.1/2" long.
- 1 " escape valve for L.P. cylinder, 3.3/8" dia. 9 coils, 7" long.
- 1 " escape valve for bilge pump on main eng. 2.17" dia. 10 coils, 6" long.
- 1 " feed pump on main eng. 4.53/64" dia. 12 coils, 14.1/4" long.
- 1 " escape valve for sanitary pump on main eng, 2.7/8", dia. 9 coils, 5.5/8" long.
- 1 " relief valve on sanitary main, 1.732" dia. 12 coils, 5.3/8" long.
- 1 " relief valve on winch exhaust, 1.692" dia. 10 coils, 5.3/8" long.
- 1 " relief valve on refrig. and steering engine exhaust box, 31/32" dia. 7 coils, 2" long.

RUBBER DIAPHRAGM DISCS.

- | | | |
|-----|---|--------|
| 10. | 1 for reducing valve for steam to winches | E.S.8 |
| " | 1 " " " " " cabin heating | E.S.43 |
| " | 1 " " " " " dynamo engine | E.S.31 |
| " | 1 " " " " " refrig. engine | E.S.30 |

FOR SUPPLEMENTERS (NORTH EASTERN MARINE ENGINEERING CO.)

- | | |
|-----|---|
| 10. | 50% Blower and drain valve lids and seats (Total 8 in number) |
| " | 20% jointing washers (50 in number) |
| " | 10% steel plugs for closing holes in headers (25 in number) |
| " | 5% studs or bolts and nuts (6 in number) |
| " | 2% clamps (3 in number) |



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