

REPORT ON MACHINERY.

No. 38140
WED. 25 SEP. 1918

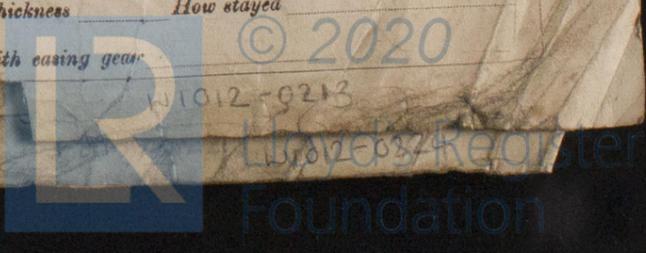
Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 2/11/14 Last Survey Sept 12 1918
 Reg. Book. 458 on the Steel Liner S.S.G. LENAPP (Number of Visits 186)
 Master Built at Glasgow By whom built oil engine Barclay Curle 604 h.p. 519 When built 1918
 Engines made at Glasgow By whom made Harland & Wolff Ltd when made 1918
 Boilers made at Annan By whom made Cochran & Co when made 1917
 Registered Horse Power 1145 Owners Glen Line Ltd Port belonging to Glasgow
 Nom. Horse Power as per Section 28 1145 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines oil engine 4 stroke cycle No. of Cylinders 16 No. of Cranks 16
 Dia. of Cylinders 7 5/8 in Length of Stroke 1100 in Revs. per minute 120 Dia. of Screw shaft 408 Material of screw shaft steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
 in the propeller boss Yes If the liner is in more than one length are the joints burned out Yes If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive linen felt whole length
 liners are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5-5
 Dia. of Tunnel shaft 348 5/8 as per rule 369 Dia. of Crank shaft journals 460 as per rule 460 Dia. of Crank pin 460 Size of Crank webs 10 7/8 x 6 1/2 x 2 1/2 Dia. of thrust shaft under
 collars 358 Dia. of screw 14-6 Pitch of Screw 12-6 No. of Blades 4 State whether moveable Yes Total surface 50 ft
 No. of Feed pumps 4 Diameter of ditto 10 Stroke 10 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 6 Stroke 6 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 1 electric motor driven air compressor 1 steam driven air compressor (starting) and motors
 In Engine Room Two 4 In Holds, &c. No 1 Two 3 1/2, No 2 Two 3 1/2, No 3 Two 3 1/2
 No. of Bilge Injections 2 sizes 5 Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 4"
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Below
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 What pipes are carried through the bunkers None How are they protected —
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Dates of examination of completion of fitting of Sea Connections 25.2.18 of Stern Tube 25.2.18 Screw shaft and Propeller 5.3.18

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Main deck
 Is it fitted with an air reservoir See separate G.L.S. Rpt No 37697
 BOILERS, &c.—(Letter for record —) Manufacturers of Steel see G.L.S. of Scotland
 Total Heating Surface of Boilers — Is Forced Draft fitted — No. and Description of Boilers air reservoir 1 tube 14209. 14214
 Working Pressure 356 lb Tested by hydraulic pressure to 712 lb Date of test 6.4.18, 11.4.18, 15.4.18 No. of Certificate 14225
 Can each boiler be worked separately — Area of fire grate in each boiler — No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 7.070 Pressure to which they are adjusted 360 lb Are they fitted with easing gear No
 Smallest distance between boilers or uptakes and bunkers or woodwork — Mean dia. of boilers — Length — Material of shell plates
 Thickness — Range of tensile strength — Are the shell plates welded or flanged — Descrip. of riveting: cir. seams
 long. seams — Diameter of rivet holes in long. seams — Pitch of rivets — Lap of plates or width of butt straps
 Per centages of strength of longitudinal joint — Working pressure of shell by rules — Size of manhole in shell
 Size of compensating ring — No. and Description of Furnaces in each boiler — Material — Outside diameter
 Length of plain part — Thickness of plates — Description of longitudinal joint — No. of strengthening rings
 Working pressure of furnace by the rules — Combustion chamber plates: Material — Thickness: Sides — Back — Top — Bottom —
 Pitch of stays to ditto: Sides — Back — Top — If stays are fitted with nuts or riveted heads — Working pressure by rules
 Material of stays — Diameter at smallest part — Area supported by each stay — Working pressure by rules — End plates in steam space:
 Material — Thickness — Pitch of stays — How are stays secured — Working pressure by rules — Material of stays —
 Diameter at smallest part — Area supported by each stay — Working pressure by rules — Material of Front plates at bottom
 Thickness — Material of Lower back plate — Thickness — Greatest pitch of stays — Working pressure of plate by rules
 Diameter of tubes — Pitch of tubes — Material of tube plates — Thickness: Front — Back — Mean pitch of stays
 Pitch across wide water spaces — Working pressures by rules — Girders to Chamber tops: Material — Depth and
 thickness of girder at centre — Length as per rule — Distance apart — Number and pitch of stays in each —
 Working pressure by rules — Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked
 separately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet
 holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness
 If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —
 Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

FR 9-MAY. 1919



VERTICAL DONKEY BOILER—

See separate Rpt of LS No 37250
Manufacturers of Steel

No. 1 Description Cochran
Made at Annan By whom made Cochran 60 When made 1917 Where fixed aft on deck of this room
Working pressure 100 lb tested by hydraulic pressure to 200 lb Date of test 9.11.17 No. of Certificate 7572 Fire grate area Description of Safety
Valves Spring loaded No. of Safety Valves 2 Area of each 3/4 sq ft Pressure to which they are adjusted 100 lb Date of adjustment 3.9.18
If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler — Dia. of donkey boiler Length
Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams
Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Rivets
Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by
Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— See separate List

Dates of Survey Continued 1917 Oct 29-31 Nov 2-3-12-13-14-20-23-27 Dec 3-5-9-11-13-18-21-24-28-29 1918 Jan 8-10-16-17-22-24-26-29
Feb 5-8-13-20-25-26 Mar 4-15-19-21-22-28 Apr 6-11-12-15-23-30 May 6-21-23-28-30 June 5-19 July 1-10 Aug 2-29 Sept 3-12

FOR HARLAND & WOLFF, LTD.,
The foregoing is a correct description.

GENERAL MANUFACTURERS
DIESEL ENGINE WORKS
Manufacturers per alt.

Dates of Survey while building
During progress of work in shops -- 1914 Nov 17-18-19-20-21-22-23-24-25-26-27-28-29-30 Dec 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30
During erection on board vessel --- 1917 May 1-5-11-14-15-18-30 June 2-9 July 13-17 Aug 1-3-5-9-29 Sept 6-7-11-13-20-25-27 Oct 2-11-16-21-26-27 Dec 7-11-14-17-18-19-20
Total No. of visits 156

Dates of Examination of principal parts—Cylinders 12.11.17 Slides — Covers 28.12.17 Pistons 28.12.17 Rods 3.1.18
Connecting rods 5.2.18 Crank shaft 26.10.17 Thrust shaft 5.2.18 Tunnel shafts 5.2.18 Screw shaft 11.4.18 Propeller 5.2.18
Stern tube 25.2.18 Steam pipes tested — Engine and boiler seatings 25.2.18 Engines holding down bolts 30.5.18
Completion of pumping arrangements 3.9.18 Boilers fixed 30.5.18 Engines tried under steam 29.8.18-12.9.18
Main boiler safety valves adjusted 3.9.18 Thickness of adjusting washers Sta 3/8" Pat 13/32
Material of Crank shaft Steel Identification Mark on Do. 45 J.E. 9.17 Material of Thrust shaft Steel Identification Mark on Do. 1734-1735
Material of Tunnel shafts steel Identification Marks on Do. 1747-1744, 782, 1696, 3620, 3437A, 1878, 784, 782, 784, 780 REM. Material of Screw shafts Steel Identification Marks on Do. 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 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