

REPORT ON MACHINERY.

No. 36426

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Date of writing Report

19

When handed in at Local Office

10

Port of Glasgow

Survey held at Glasgow
Book on the T.S.S. "Boxleaf"

Date, First Survey 10-12-13 Last Survey 16-2-1917

(Number of Visits 141)

Builder Built at Glasgow By whom built Barclay Curle & Co. Ltd. (539) Tons Gross 539 Net 539 When built 1917

Names made at Glasgow By whom made Barclay Curle & Co. Ltd. 539 when made 1917

Machinery made at Glasgow By whom made Barclay Curle & Co. Ltd. 539 when made 1917

Registered Horse Power Owners Port belonging to

Horse Power as per Section 28 900 Is Refrigerating Machinery fitted for cargo purposes 200 Is Electric Light fitted yes

Engines, &c.—Description of Engines Twin screw triple expansion of Cylinders 6 No. of Cranks 6

No. of Cylinders 21" 35 1/2" 61" Length of Stroke 45 Revs. per minute 85 Dia. of Screw shaft as per rule 13.29 as fitted 13 3/4 Material of screw shafts 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

propeller boss yes If the liner is in more than one length are the joints burned length 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 etc. etc. to all the bearings? two

are fitted, is the shaft lapped or protected between the liners Length of stern bush 4.8

No. of Tunnel shafts as per rule 11.87 as fitted 12 5/8 Dia. of Crank shaft journals as per rule 12.06 as fitted 12 5/8 Dia. of Crank pin 12 5/8 Size of Crank webs 8 1/2 x 18 Dia. of thrust shaft under

12 5/8 Dia. of screw 16-3 Pitch of Screw 18-9 No. of Blades 3 State whether moveable yes Total surface 68 1/2

No. of Feed pumps 4 Diameter of ditto 4 1/4 Stroke 22 1/2 Can one be overhauled while the other is at work yes

No. of Bilge pumps 4 Diameter of ditto 4 1/4 Stroke 22 1/2 Can one be overhauled while the other is at work yes

No. of Donkey Engines 4 Sizes of Pumps 9 x 11 1/2, 9 x 16 1/2, 10.7 x 8 x 12 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room (2) 3 1/2" in boiler room (2) 3 1/2" in Hold, &c. in fore peak (1) 4" in aft tank (1) 4" in aft tank (1) 4"

No. of Bilge Suctions 2 sizes 8 Connected to condenser, or to circulating pump pumps a separate Donkey Suction fitted in Engine room & size 4 x 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

How are they protected none

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

When was the examination of completion of fitting of Sea Connections 14/9/16 of Stern Tube 21/11/16 Screw shaft and Propeller 21/11/16

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from

Suppliers, &c.—(Letter for record 1 Aux 1528 14156 ft.) Manufacturers of Steel Steel Coy of Scotland & D. & Co. Ltd. Sons

Working Surface of Boilers 12628 Is Forced Draft fitted yes No. and Description of Boilers 4 Single ended 10/3/16 27/3/16 13377 13388

Working Pressure 215 Tested by hydraulic pressure to 430 Date of test 16/3/16 8/5/16 No. of Certificate 13380 13411

Can each boiler be worked separately yes Area of fire grate in each boiler 75.169 No. and Description of Safety Valves to

each boiler 1 pair direct spring Area of each valve 9.62 Pressure to which they are adjusted 220 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 15 Mean dia. of boilers 16.6 Length 12-0 Material of shell plates Steel

Thickness 1 1/4 Range of tensile strength 31,535 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams treble lap

1. seams treble butt Diameter of rivet holes in long. seams 1 21/32 Pitch of rivets 10 1/2 Lap of plates or width of butt straps 23 1/2

Percentages of strength of longitudinal joint rivets 92.8 Working pressure of shell by rules 207 Size of manhole in shell 16 x 12

Material of compensating ring M. Reels 10 1/2 x 1 1/2 No. and Description of Furnaces in each boiler 4 Morrison Material steel Outside diameter 3-9 1/4

Length of plain part top bottom Thickness of plates crown 2 1/2 bottom 3 1/2 Description of longitudinal joint weld No. of strengthening rings

Working pressure of furnace by the rules 236 Combustion chamber plates: Material steel Thickness: Sides 4 1/2 Back 2 1/2 Top 4 1/2 Bottom 1

Material of stays steel Thickness 1 1/4 Pitch of stays 20 x 16 How are stays secured 2 nuts Working pressure by rules 249 Material of stays steel

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