

## REPORT ON MACHINERY.

No. 36328

Date of writing Report 16-9-16 When handed in at Local Office 16-9-16 Port of Glasgow  
No. in Survey held at Glasgow Date, First Survey 19-12-13 Last Survey 15-9-1916.  
Reg. Book. on the Steel Single Screw 3 Mast Steamer "STEPNEY" (Number of Visits 54)  
Master G. R. Garrett Built at Workington By whom built R. Williamson & Sons 1922 Tons Gross 1916.  
Engines made at Coatbridge By whom made Wm Beardmore & Co 1916 when made 1916.  
Boilers made at Glasgow By whom made D. Rowan & Co 1916 when made 1916.  
Registered Horse Power Owners Commercial Gas Co Port belonging to Glasgow  
Nom. Horse Power as per Section 28 99.8 Is Refrigerating Machinery fitted for cargo purposes 10 Is Electric Light fitted 10

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 14 22 1/2 x 34 Length of Stroke 24 Revs. per minute 49 Dia. of Screw shaft as per rule 8 1/4 Material of 15.9  
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 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 If two  
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 3'-0"  
Dia. of Tunnel shaft as per rule 6.8 Dia. of Crank shaft journals as per rule 4 1/4 Dia. of Crank pin 4 1/4 Size of Crank webs 14 1/4 x 4 1/2 Dia. of thrust shaft under  
collars 4 1/4 Dia. of screw 10-6 Pitch of Screw 13-6 No. of Blades 4 State whether moveable 20 Total surface 40.8  
No. of Feed pumps 2 Diameter of ditto 2 3/4 Stroke 12 Can one be overhauled while the other is at work yes  
No. of Bilge pumps 2 Diameter of ditto 2 3/4 Stroke 12 Can one be overhauled while the other is at work yes  
No. of Donkey Engines 2 Sizes of Pumps 6 x 4 x 6 & 6 x 7 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room 2 - 2 1/4 Infr Room Aft & Infr Room Fdn Holds, &c. 2 - 2 Hold, Port & Starboard  
No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump 6. P Is a separate Donkey Suction fitted in Engine room & size yes 2 1/4  
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  
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both Valves & Cocks  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehole plates yes Are the Discharge Pipes above or below the deep water line Above  
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 3 in. 16 How are they protected 7 in.  
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 28/7/16 of Stern Tube 28/7/16 Screw shaft and Propeller 28/7/16  
Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from (Newcastle Report 1969034 attached)

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel The Steel Co of Scotland, Ltd.  
Total Heating Surface of Boilers 1900 sq ft Forced Draft fitted 10 No. and Description of Boilers 2 single ended marine  
Working Pressure 150 Tested by hydraulic pressure to 360 Date of test 14/9/15 No. of Certificate 13249.  
Can each boiler be worked separately yes Area of fire grate in each boiler 31.4 sq ft No. and Description of Safety Valves to  
each boiler 1 pair Double Spring Area of each valve 3.95 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 9 in. Mean dia. of boilers Length Material of shell plates  
Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: air 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 rivets Working pressure of shell by rules No. of manhole in shell  
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter  
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
bottom Working pressure of surface 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



*Manufacturers of Steel*

SPARE GEAR. State the articles supplied:— 2 Con Rod top end + 2 Con Rod bottom end bolts + nuts, 2 Main bearing bolts + nuts, 1 set of coupling bolts + nuts 1 Set of Feed + Bilge pump valves. A quantity of assorted bolts + nuts Iron of various sizes.

WILLIAM BEARDMORE & CO., LIMITED.

*Manufacturer.*

Is the approved plan of main boiler forwarded herewith *yes*

*General Remarks* (State quality of workmanship, opinions as to class, &c.)

The Machinery has been built under special survey in accordance with the Rules of the Society, securely fitted on board & tried under steam with satisfactory results.

The machinery of this vessel is eligible, in my opinion to have notification of T. L. M. C 9-16. in red in the Register Book.

*Engineer Surveyor to Lloyd's Register of British & Foreign Shipping*

26 SEP. 1919

TUE. 3-OCT. 1916

+ L. M. C. 9.16

Subject to Classification  
of Hull.

+ *L.M. Lloyd*  
 Lloyd's Register  
 MACHINERY IDENTIFICATION  
 WRITTEN.