

Rpt. 5a.

# REPORT ON BOILERS.

No. 30159.

Received at London Office **24 MAY 1911**  
Date of writing Report **May 13<sup>th</sup> 1911** When handed in at Local Office **19/5/11** Port of **Glasgow**  
No. in Survey held at **Glasgow** Date, First Survey **25<sup>th</sup> April** Last Survey **May 12<sup>th</sup> 1911**  
Reg. Book. **"ELEPHANTA"** (Number of Visits **97**) Tons { Gross **5292**  
Net **2698**  
on the **TWIN S/S**  
Master **R. H. Coope** Built at **Whitinch** By whom built **Barclay Curle & Co. Ltd.** When built **1911**  
Engines made at **Glasgow** By whom made **Barclay Curle & Co. Ltd.** when made **1911**  
Boilers made at **Glasgow** By whom made **Barclay Curle & Co. Ltd.** when made **1911**  
Registered Horse Power Owners **British India Steam Navigation Co. Ltd.** Port belonging to **Glasgow**

**MULTITUBULAR BOILERS** ~~MAIN, AUXILIARY OR~~ **DONKEY**.—Manufacturers of Steel **Steel Co. Scotland & Colvilles Ltd.**  
(Letter for record **S**) Total Heating Surface of Boiler **1220<sup>sq</sup> ft** Is forced draft fitted **no** No. and Description of  
Boiler **One Single Ended** Working Pressure **100 lbs** Tested by hydraulic pressure to **200 lbs** Date of test **27-2-11**  
No. of Certificate **10825** Can each boiler be worked separately **-** Area of fire grate in each boiler **35<sup>sq</sup> ft** No. and Description of  
safety valves to each boiler **double spring loaded** Area of each valve **5<sup>sq</sup> ft** Pressure to which they are adjusted **105 lbs**  
Are they fitted with easing gear **yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler **no**  
Smallest distance between boilers ~~uptake~~ and bunkers or ~~woodwork~~ **22"** Mean dia. of boiler **12'-0"** Length **10'-0"**  
Material of shell plates **steel** Thickness **11/16"** Range of tensile strength **28/32 tons** Are the shell plates welded or flanged **no**  
Descrip. of riveting: cir. seams **D.R.** long. seams **D.R. D.R.** Diameter of rivet holes in long. seams **7/8"** Pitch of rivets **4 5/8"**  
Gap of plates or width of butt straps **9 1/4"** Per centages of strength of longitudinal joint rivets **84.2** Working pressure of shell by  
rules **111** Size of manhole in shell **17" x 13"** Size of compensating ring **8" x 3/4"** No. and Description of Furnaces in each  
boiler **two plain** Material **steel** Outside diameter **3'-7 1/4"** Length of plain part **6'-0"** Thickness of plates **5/8"**  
Description of longitudinal joint **weld** No. of strengthening rings **none** Working pressure of furnace by the rules **133** Combustion chamber  
plates: Material **steel** Thickness: Sides **1/2"** Back **1/2"** Top **1/2"** Bottom **7/8"** Pitch of stays to ditto: Sides **8" x 9"** Back **8" x 9"**  
Top **8" x 9"** If stays are fitted with nuts or riveted heads **nuts** Working pressure by rules **106** Material of stays **steel** Diameter at  
smallest part **9/16"** Area supported by each stay **72<sup>sq</sup> in** Working pressure by rules **132** End plates in steam space: Material **steel** Thickness **15/16"**  
Pitch of stays **17" x 17"** How are stays secured **D. nuts** Working pressure by rules **136** Material of stays **steel** Diameter at smallest part **3.26"**  
Area supported by each stay **289<sup>sq</sup> in** Working pressure by rules **117** Material of Front plates at bottom **steel** Thickness **13/16"** Material of  
Lower back plate **steel** Thickness **11/16"** Greatest pitch of stays **13 1/2" x 9"** Working pressure of plate by rules **124** Diameter of tubes **3 1/4"**  
Pitch of tubes **4 1/2" x 4 1/2"** Material of tube plates **steel** Thickness: Front **13/16"** Back **3/4"** Mean pitch of stays **abt. 9-9"** Pitch across wide  
water spaces **14 1/4"** Working pressures by rules **116** Girders to Chamber tops: Material **steel** Depth and thickness of  
girder at centre **7" x 20 1/8"** Length as per rule **2'-5 3/4"** Distance apart **9"** Number and pitch of Stays in each **2 @ 8"**  
Working pressure by rules **111** Superheater or Steam chest; how connected to boiler **none** 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 **✓**

The foregoing is a correct description,

**FOR BARCLAY CURLE & CO., LTD.** Manufacturer.

**James Gitchrist** Director

Is the approved plan of boiler forwarded herewith **Grounded with Glasgow Rep. 30018**

Total No. of visits

Dates of Survey { During progress of work in shops - - } **See Machinery rpt**  
while building { During erection on board vessel - - }  
Dates of Survey { During progress of work in shops - - }  
while building { During erection on board vessel - - }

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

**See report on Machinery**

Survey Fee ... £ : : When applied for. 19  
Travelling Expenses (if any) £ : : When received. 19

Committee's Minute

Assigned **See accompanying machinery report**

**Glasgow 23 MAY 1911**

**H. C. Forster**  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register Foundation

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