

Rpt. 5a.

REPORT ON BOILERS.

No. 30159.

Received at London Office **24 MAY 1911**

Date of writing Report May 13th 1911 When handed in at Local Office 19/5/11 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 25th April Last Survey May 12th 1911

Reg. Book. TWIN S/S "ELEPHANTA" (Number of Visits 97) Tons { Gross 5292
Net 2698

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^{sq} 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^{sq} ft No. and Description of safety valves to each boiler double spring loaded Area of each valve 5^{sq} 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 ~~plates~~ 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 25/32 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams D.R. long. seams D.R. D.S. 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^{sq} 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^{sq} 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 5/8" 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
James Ritchie Director
Is the approved plan of boiler forwarded herewith forwards with Glasgow Rep. 30018

Total No. of visits _____

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 Glasgow 23 MAY 1911
Assigned See accompanying machinery report

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



Lloyd's Register Foundation

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