

## REPORT ON BOILERS.

No. 34333

Received at London Office WED. 19 DEC. 1917

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

No. in Survey held at  
Reg. Book.

Glasgow

Date, First Survey 22<sup>nd</sup> Feb. 1916 Last Survey 8<sup>th</sup> Dec. 1917

(Number of Visits 84)

Gross  
Tons  
Net

Master

Built at

Glasgow

By whom built

Barclay Curle &amp; Co. (515)

When built 1917

Engines made at

Glasgow

By whom made

Barclay Curle &amp; Co. (515)

When made 1917

Boilers made at

Glasgow

By whom made

Barclay Curle &amp; Co. (515)

When made 1917

Registered Horse Power

Owners

British India Steam Navigation Co.

Port belonging to

MULTITUBULAR BOILERS—~~MAIN~~, AUXILIARY OR ~~DONKEY~~.—Manufacturers of Steel D. Colville Burns & Thompson Beardmore(Letter for record (S) Total Heating Surface of Boilers 1528  $\text{ft}^2$  Is forced draft fitted yes No. and Description of

Boilers 1 Single ended Working Pressure 215 Tested by hydraulic pressure to 430 Date of test 23/10/16

No. of Certificate 13590 Can each boiler be worked separately Area of fire grate in each boiler 37.58  $\text{ft}^2$  No. and Description of

safety valves to each boiler 1 pair direct spring Area of each valve 5.94 Pressure to which they are adjusted 220

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 18 Mean dia. of boilers 12' 0" Length 11' 0"

Material of shell plates steel Thickness 1  $\frac{5}{16}$ " Range of tensile strength 28532 Are the shell plates welded or flanged noDescrip. of riveting: cir. seams double lap long. seams triple butt Diameter of rivet holes in long. seams 1  $\frac{5}{16}$ " Pitch of rivets 8  $\frac{3}{4}$ "Gap of plates or width of butt straps 19  $\frac{1}{2}$  Per centages of strength of longitudinal joint rivets 87.4 Working pressure of shell byrules 246 Size of manhole in shell 16" x 12" Size of compensating ring 10  $\frac{1}{2}$ " x 1  $\frac{3}{8}$ " No. and Description of Furnaces in eachboiler 2 Morrison Material steel Outside diameter 3 - 9  $\frac{1}{4}$ " Length of plain part top Thickness of plates crown 21

Description of longitudinal joint welded No. of strengthening rings 20 Working pressure of furnace by the rules 236 Combustion chamber

plates: Material steel Thickness: Sides 2  $\frac{1}{32}$ " Back 2  $\frac{1}{32}$ " Top 2  $\frac{1}{32}$ " Bottom 1" Pitch of stays to ditto: Sides 7  $\frac{3}{4}$ " x 8  $\frac{1}{4}$ " Back 7  $\frac{3}{4}$ " x 8  $\frac{1}{4}$ "Top 7  $\frac{3}{4}$ " x 8  $\frac{1}{4}$ " stays are fitted with nuts or riveted heads nuts Working pressure by rules 232 Material of stays steel Diameter atsmallest part 1.73" Area supported by each stay 64" Working pressure by rules 216 End plates in steam space: Material steel Thickness 1  $\frac{3}{16}$ "Pitch of stays 16" x 16  $\frac{1}{2}$ " How are stays secured 2 nuts Working pressure by rules 239 Material of stays steel Diameter at smallest part 6.67Area supported by each stay 264" Working pressure by rules 262 Material of Front plates at bottom steel Thickness 3  $\frac{1}{32}$ " Material ofLower back plate steel Thickness 29  $\frac{29}{32}$  Greatest pitch of stays 14  $\frac{1}{2}$ " Working pressure of plate by rules 216 Diameter of tubes 2  $\frac{1}{2}$ "Pitch of tubes 3  $\frac{3}{4}$ " x 3  $\frac{3}{8}$ " Material of tube plates steel Thickness: Front 3  $\frac{1}{32}$ " Back 1  $\frac{3}{16}$ " Mean pitch of stays 7  $\frac{3}{8}$ " Pitch across widewater spaces 13  $\frac{1}{2}$ " Working pressures by rules 224 Girders to Chamber tops: Material steel Depth and thickness ofgirder at centre 10" x 25  $\frac{25}{32}$  Length as per rule 2' - 6  $\frac{12}{32}$  Distance apart 8  $\frac{1}{4}$ " Number and pitch of Stays in each (3) 7  $\frac{3}{4}$ "

Working pressure by rules 290 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

FOR BARCLAY, CURLE &amp; CO., LTD.

The foregoing is a correct description,

Manufacturer.

Dates of Survey  
During progress of work in shops - -  
while building During erection on board vessel - -

See accompanying Report

Is the approved plan of boiler forwarded herewith yes

Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.) This boiler has been built

under Special Survey, the materials &amp; workmanship are of good description, it has been well fitted on board.

Survey Fee ... £

When applied for,

191

Travelling Expenses (if any) £

When received,

191

A. McKeand + Wm. H. Copeman  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW.

18 DEC. 1917

Assigned See accompanying machinery report

Lloyd's Register  
Foundation  
W1432-0073