

REPORT ON BOILERS.

No. 33713

Received at London Office

WED. MAR. 11. 1914

Date of writing Report

9. 3. 1914 When handed in at Local Office

9. 3. 1914 Port of Glasgow

No. in Survey held at

Glasgow

Date, First Survey

16. 1. 13

Last Survey

5. 3. 1914

Req. Book.

2 Sup. on the aux. boiler for s.s. "BANDRA"

(Number of Visits 64)

Gross 3284

Net 1844

Master H. W. Talent

Built at Glasgow

By whom built Barclay Curle & Co (No. 504)

When built 1914

Engines made at Glasgow

By whom made Barclay, Curle & Co (No. 504)

When made 1914

Boilers made at do

By whom made - do -

When made 1914

Registered Horse Power

Owners British India S. N. Co Ltd.

Port belonging to Glasgow

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel Steel Co. of Scotland, Chittle, Lanarkshire

Letter for record S. Total Heating Surface of Boilers 1571 sq ft Is forced draft fitted Yls No. and Description of

boilers One single ended marine Working Pressure 215-lbs Tested by hydraulic pressure to 430-lbs Date of test 1. 10. 13

No. of Certificate 12344 Can each boiler be worked separately Y Area of fire grate in each boiler 41 1/2 sq ft No. and Description of

safety valves to each boiler Pair spring loaded Area of each valve 5.94 sq in Pressure to which they are adjusted 220-lbs

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

Smallest distance between boilers 12" Mean dia. of boilers 12'-6" Length 11'-6"

Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28 1/2/32 Are the shell plates welded or flanged Y

Descrip. of riveting: cir. seams T.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9/8"

Gap of plates or width of butt straps 20" Per centages of strength of longitudinal joint rivets 89.7 Working pressure of shell by

rules 246 lbs. Size of manhole in shell 14" x 13" Size of compensating ring 11" x 1 1/2" No. and Description of Furnaces in each

boiler 2 - Morrison Material steel Outside diameter 4'-1 1/2" Length of plain part top 23" Thickness of plates crown 2 3/4" bottom 3 1/2"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 242 lbs Combustion chamber

plates: Material steel Thickness: Sides 7/6 Back 7/6 Top 7/6 Bottom 1" 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 Y Working pressure by rules 225 lbs Material of stays steel Diameter at

smallest part 1.76 Area supported by each stay 72 Working pressure by rules 215 lbs End plates in steam space: Material steel Thickness 1 3/4"

Pitch of stays 18 x 15 7/8 How are stays secured D.N.S Working pressure by rules 230 lbs Material of stays steel Diameter at smallest part 7.24

Area supported by each stay 285 3/4 Working pressure by rules 264 lbs Material of Front plates at bottom steel Thickness 7/6 Material of

Lower back plate steel Thickness 7/6 Greatest pitch of stays 16 x 11 Working pressure of plate by rules 335 lbs Diameter of tubes 2 1/2"

Pitch of tubes 3 1/4 x 3 3/4 Material of tube plates steel Thickness: Front 7/6 Back 7/6 Mean pitch of stays 7 1/2 x 7 1/2 Pitch across wide

water spaces 13 1/2 Working pressures by rules 297 lbs Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 10 x 25 (dual) Length as per rule 2'-8" Distance apart 9" Number and pitch of Stays in each 3-8 x 9"

Working pressure by rules 241 lbs Superheater or Steam chest: how connected to boiler Y Can the superheater be shut off and the boiler worked

separately Y Diameter Y Length Y Thickness of shell plates Y Material Y Description of longitudinal joint Y Diam. of rivet

holes Y Pitch of rivets Y Working pressure of shell by rules Y Diameter of flue Y Material of flue plates Y Thickness Y

If stiffened with rings Y Distance between rings Y Working pressure by rules Y End plates: Thickness Y How stayed Y

Working pressure of end plates Y Area of safety valves to superheater Y Are they fitted with easing gear Y

FOR BARCLAY, CURLE & CO., LTD.

Archibald Gillespie Manager

The foregoing is a correct description,

Manufacturer.

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

See accompanying Machinery Report.

Is the approved plan of boiler forwarded herewith Yls

Total No. of visits

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

The materials and workmanship are good. This boiler has been built under special survey, securely fitted aboard and its safety valves have been adjusted under steam; it is a duplicate of that fitted in S.S.'s "Bankura" & "Banjora" - G.L. Rpts Nos 31542, 31414.

Survey Fee ... £ report ... When applied for, 191 ...

Travelling Expenses (if any) £ : : When received, 191 ...

P. J. Brown

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

GLASGOW 10 MAR 1914

Committee's Minute

Assigned See accompanying machinery report.

