

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

Reg. Book.

2 Sup. on the

aux. boiler for s.s. "BANDRA"

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, Glasgow & Co. Ltd.

Letter for record

S.

Total Heating Surface of Boilers

1571 sq. ft.

Is forced draft fitted

Yes

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

Yes

Area of fire grate in each boiler

41 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 easing gear

Yes

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers

12 in.

Mean dia. of boilers

12'-6"

Length

11'-6"

Material of shell plates

Steel

Thickness

1 1/2 in.

Range of tensile strength

28 1/2/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

T.R.

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 3/8 in.

Pitch of rivets

9/8 in.

Gap of plates or width of butt straps

20 in.

Per centages of strength of longitudinal joint

89.7

Working pressure of shell by

plate

84.9

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

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

1 1/2 in.

Back

1 1/2 in.

Top

1 1/2 in.

Bottom

1 in.

Pitch of stays to ditto: Sides

8 x 9 in.

Back

8 x 9 in.

Top

8 x 9 in.

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

225 lbs.

Material of stays

Steel

Diameter at

smallest part

1.76 in.

Area supported by each stay

72 sq. in.

Working pressure by rules

215 lbs.

End plates in steam space: Material

Steel

Thickness

1 3/2 in.

Pitch of stays

18 x 15/8 in.

How are stays secured

D.N.S.

Working pressure by rules

230 lbs.

Material of stays

Steel

Diameter at smallest part

1 3/2 in.

7.24 in.

Area supported by each stay

285 3/4 sq. in.

Working pressure by rules

264 lbs.

Material of Front plates at bottom

Steel

Thickness

1 3/2 in.

Material of

Lower back plate

Steel

Pitch of tubes

3 1/4 x 3 1/4 in.

Material of tube plates

Steel

Thickness: Front

1 3/2 in.

Back

1 3/2 in.

Mean pitch of stays

7 1/2 x 7 1/2 in.

Pitch across wide

water spaces

13 1/2 in.

Working pressures by rules

297 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10 x 25/32 (dual)

Length as per rule

2'-8"

Distance apart

9 in.

Number and pitch of Stays in each

3-8 x 9 in.

Working pressure by rules

241 lbs.

Superheater or Steam chest: how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

Yes

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Yes

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

See accompanying

Machinery Report.

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" & "Banjara" - G.L. Rpts Nos 31542, 31414.

Survey Fee

Travelling Expenses (if any)

When applied for

When received

191

191

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

Committee's Minute

Assigned

See accompanying machinery

report.

GLASGOW 10 MAR 1914

Lloyd's Register

Foundation