

REPORT ON BOILERS.

No. 20151

27 MAY 1936

Received at London Office

Writing Report 20.3 26 When handed in at Local Office 19th MAY 1936. Port of Greenock

Survey held at

Date, First Survey 4th OCTOBER 1935 Last Survey 19th MAY 1936

Book.

(Number of Visits)

Tons

Gross 4980.99

Net 3079.61

on the

S/S "Jalaganga"

Built at

Glasgow

By whom built

Lithgows & Co. Ltd.

Yard No.

881

When built

1936

Machinery made at

Greenock

By whom made

John & Macdonald & Co. Ltd.

Engine No.

676

When made

1936

Boilers made at

Greenock

By whom made

John & Macdonald & Co. Ltd.

Boiler No.

676

When made

1936

Nominal Horse Power

Owners

Scindia S & Co. Ltd.

Port belonging to

Bombay

MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel

Bolville, Swarth & Sons, Thos. Walsley & Sons, Cargo Fuel Iron Co. (Letter for Record R)

Heating Surface of Boilers

9563 sq ft

Is forced draught fitted

Yes

Coal

Oil fired

Coal

and Description of Boilers

3 Single Bundled

Working Pressure

220

Tested by hydraulic pressure to

380

Date of test

20/3/36

No. of Certificate

2047

Can each boiler be worked separately

Yes

Area of Firegrate in each Boiler

63.25 sq ft

No. and Description of safety valves to each boiler

One Double Spring

Area of each set of valves per boiler

13.4 sq ft

Pressure to which they are adjusted

14.12 lb

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 or uptakes and bunkers or woodwork

1'-9"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

2'-0"

Is the bottom of the boiler insulated

Yes

Largest internal dia. of boilers

14' 10 9/16"

Length

11'-6"

Shell plates: Material

S

Tensile strength

29-33

Thickness

17/16"

Are the shell plates welded or flanged

Yes

Description of riveting: circ. seams

end

inter.

Pitch of seams

T R + D B S

Diameter of rivet holes in

circ. seams

1 1/8"

long. seams

1 7/16"

Pitch of rivets

4.158

9.812

Percentage of strength of circ. end seams

plate

64-6

rivets

44.84

Percentage of strength of circ. intermediate seam

plate

86-3

rivets

85.9

Percentage of strength of longitudinal joint

plate

86-3

rivets

85.9

Working pressure of shell by Rules

221

Thickness of butt straps

outer

13/32"

inner

17/32"

No. and Description of Furnaces in each Boiler

3 Marpois

Material

S

Tensile strength

26-30

Smallest outside diameter

3'-9 1/2"

Length of plain part

top

✓

Thickness of plates

crown

3/4"

bottom

Description of longitudinal joint

weld

Dimensions of stiffening rings on furnace or c.c. bottom

✓

Working pressure of furnace by Rules

243

Diaphragm plates in steam space: Material

S

Tensile strength

26-30

Thickness

1 1/32"

Pitch of stays

21" 18 3/4"

How are stays secured

D N + Washers

Working pressure by Rules

222

Diaphragm plates: Material

front

S

back

S

Tensile strength

26-30

Thickness

1 1/16"

Can pitch of stay tubes in nests

8'-5"

Pitch across wide water spaces

13 1/2"

Working pressure

front

241

back

232

Diaphragm plates to combustion chamber tops: Material

S

Tensile strength

29.33

Depth and thickness of girder

Centre

10' 3 1/4" (2)

Length as per Rule

2'-9 5/8"

Distance apart

8 1/4"

No. and pitch of stays

Each

3 at 8"

Working pressure by Rules

230

Combustion chamber plates: Material

S

Tensile strength

26-30

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1 3/16"

Pitch of stays to ditto: Sides

8' 8 1/4"

Back

8' 9"

Top

8' 8 1/4"

Are stays fitted with nuts or riveted over

Nuts

Working pressure by Rules

229

Front plate at bottom: Material

S

Tensile strength

26-30

Thickness

7/8"

Lower back plate: Material

S

Tensile strength

26-30

Thickness

7/8"

Pitch of stays at wide water space

14"

Are stays fitted with nuts or riveted over

Nuts

Working Pressure

226

Main stays: Material

S

Tensile strength

28-32

Diameter

At body of stay,

3 1/4"

Over threads

No. of threads per inch

6

Area supported by each stay

293.45 sq in

Working pressure by Rules

236

Screw stays: Material

Iron

Tensile strength

21 1/2 sq in

Diameter

At turned off part,

1 3/4"

Over threads

No. of threads per inch

9

Area supported by each stay

42 sq in

