

REPORT ON BOILERS.

No. 38501

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of

Glasgow

TUE FEB 4 1919

No. in Survey held at

Renfrew

Date, First Survey

31/3/18

Last Survey

3/9/19

1919

Reg. Book.

on the Boiler No 567B. S.S. "Independance"

(Number of Visits 16)

Gross
Tons
Net

Master

Built at Ardrossan

By whom built

Ardrossan Dry Dock Co Ltd (302) When built 1919

Engines made at

Clydebank

By whom made

Aitchison Blair Ltd

(119) When made 1918

Boilers made at

Renfrew

By whom made

Wm Simons & Co Ltd

(567B) When made 1915

Registered Horse Power

Owners *Lieut. Comdr. D. Armanant, Lieut. Smith, D. Armanant*

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Steel Co of Scotland*

(Letter for record

5

Total Heating Surface of Boiler

1786 sq ft

Is forced draft fitted

No. and Description of

Boilers

One single ended

Working Pressure

130 lbs Tested by hydraulic pressure to 260 lbs

Date of test 3.9.15

No. of Certificate

13233 Can each boiler be worked separately

Area of fire grate in each boiler

59.25 sq ft No. and Description of

safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

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

Mean dia. of boilers

13'-3" Length 10'-3"

Material of shell plates

steel

Thickness

 $\frac{13}{16}$

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR-Lap

long. seams

D.B.S. TR.

Diameter of rivet holes in long. seams

 $\frac{15}{16}$

Pitch of rivets

6 $\frac{1}{2}$

Lap of plates or width of butt straps

14"

Per centages of strength of longitudinal joint

rivets 94.1

Working pressure of shell by

rules

130

Size of manhole in shell

19" x 15"

Size of compensating ring

28 $\frac{1}{2}$ x 24 $\frac{1}{2}$ x 1"

No. and Description of Furnaces in each

boiler

3 Beighton

Material

steel

Outside diameter

44 $\frac{3}{8}$ "

Length of plain part

top —

bottom —

Thickness of plates

crown $\frac{7}{16}$ bottom $\frac{7}{16}$

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

142

Combustion chamber

plates: Material

steel

Thickness: Sides

 $\frac{14}{32}$

Back

 $\frac{1}{2}$ "

Top

 $\frac{14}{32}$

Bottom

 $\frac{3}{4}$ "

Pitch of stays to ditto: Sides 8 x 8

Back 8 $\frac{5}{8}$ x 6 $\frac{3}{4}$

Top 8 x 8

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135

Material of stays

steel

area Diameter at

smallest part

96"

Area supported by each stay

57"

Working pressure by rules

135

End plates in steam space: Material

steel

Thickness

 $\frac{29}{32}$

Pitch of stays

16 $\frac{1}{4}$ x 18

How are stays secured

DN RW

Working pressure by rules

133

Material of stays

steel

area Diameter at smallest part

4.11"

Area supported by each stay

292"

Working pressure by rules

146

Material of Front plates at bottom

steel

Thickness

 $\frac{11}{16}$

Material of

Lower back plate

steel

Thickness

 $\frac{11}{16}$

Greatest pitch of stays

14 $\frac{7}{16}$ "

Working pressure of plate by rules

133

Diameter of tubes

3 $\frac{1}{4}$ "

Pitch of tubes

4 $\frac{3}{8}$ x 4 $\frac{3}{8}$

Material of tube plates

steel

Thickness: Front

 $\frac{11}{16}$

Back

 $\frac{11}{16}$

Mean pitch of stays

11"

Pitch across wide

water spaces

14 $\frac{1}{4}$ doubled $\frac{11}{16}$

Working pressures by rules

186

Girders to Chamber tops: Material

steel

Depth and thickness of

girder at centre

2 plates 6 $\frac{1}{2}$ x 14 $\frac{1}{2}$

Length as per rule

29

Distance apart

8

Number and pitch of Stays in each

2 of 8"

Working pressure by rules

130

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 WM. SIMONS & CO., LTD.

The foregoing is a correct description,

J. M. Armanant

SECRETARY

Manufacturer.

Dates

During progress of

work in shops

of Survey

while

building

Dates

During erection on

board vessel

Total No. of visits

16

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

This boiler has been constructed under special survey in accordance with the rules and approved plan, and is now to be fitted in the Ardrossan Dry Dock Co's No 302. Standard vessel. Materials & workmanship are good. This boiler has now been fitted on board the Ardrossan D. D. No 302 and tested under steam satisfactorily.

Survey Fee

...

...

£

Su Machy

When applied for,

191

Travelling Expenses (if any) £

report

When received,

191

Harry Clarke

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

Committee's Minute

TUE 4-FEB. 1919

Assigned

W1032-0112

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Foundation

RETAIL

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