

## REPORT ON BOILERS.

No. 35256.

Received at London Office

WED. JUN. 30. 1915

Writing Report June 25 1915. When handed in at Local Office

Port of

Glasgow

Survey held at

Glasgow.

Date, First Survey

29/12/14

Last Survey

June 22<sup>nd</sup> 1915

Book.

on the return tube boiler 1452 - ~~for 6000~~ S. PORTO GRANDE.

(Number of Visits)

Gross

Net

Built at

Greenock

By whom built

E. Brown &amp; Co No 92

When built

1915.

Made at

Glasgow

By whom made

James McKie &amp; Baxter (No 806)

When made

1915.

Made at

"

By whom made

A. Anderson &amp; Sons

When made

1915.

Horse Power

Owners

Port belonging to

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel L. Colville &amp; Sons.

for record

Total Heating Surface of Boilers

433 sq ft

Is forced draft fitted

No.

No. and Description of

one, return tube

Working Pressure

130

Tested by hydraulic pressure to

260

Date of test 22-6-15

Certificate 13188

Can each boiler be worked separately

✓

Area of fire grate in each boiler

28.45 sq ft

No. and Description of

valves to each boiler

2 Direct Spring

Area of each valve

3.90

Pressure to which they are adjusted

fitted with easing gear

Yes

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

✓

Distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

9'-6"

Length 9'-0"

Material of shell plates

Steel

Thickness

1/4"

Range of tensile strength

28/32

Are the shell plates welded or flanged

✓

Pitch of riveting: cir. seams

double

long. seams

triple

Diameter of rivet holes in long. seams

3/16"

Pitch of rivets

5"

Width of butt straps

12"

Per centages of strength of longitudinal joint

rivets 93.0

Working pressure of shell by

plate 83.0

Size of manhole in shell

16" x 12"

Size of compensating ring

6 1/2" x 1/2"

No. and Description of Furnaces in each

Two plain

Material

Steel

Outside diameter

3'-0"

Length of plain part

top 5'-9"

Thickness of plates

crown 7/16"

bottom 9/16"

Type of longitudinal joint

Welded

No. of strengthening rings

✓

Working pressure of furnace by the rules

136.

Combustion chamber

Material

Steel

Thickness: Sides

35/64"

Back

35/64"

Top

35/64"

Bottom

5/8"

Pitch of stays to ditto: Sides

8 1/4"

Back 8 1/4"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

135.

Material of stays

Steel

Diameter at

Part 1/19

Area supported by each stay

68

Working pressure by rules

139

End plates in steam space: Material

Steel

Thickness

25/32"

Stays 1/63"

How are stays secured

double nuts

Working pressure by rules

134

Material of stays

Steel

Diameter at smallest part

2.84"

Supported by each stay

139

Working pressure by rules

139

Material of Front plates at bottom

Steel

Thickness

25/32"

Material of

Back plate

Steel

Thickness

35/32"

Greatest pitch of stays

15"

Working pressure of plate by rules

130

Diameter of tubes

3 1/4"

Pitch of tubes

4 3/8"

Material of tube plates

Steel

Thickness: Front

35/32"

Back

2 1/2"

Mean pitch of stays

10 5/8"

Pitch across wide

Spaces

13"

Working pressures by rules

130

Girders to Chamber tops: Material

Steel

Depth and thickness of

At centre

6 1/4" x 1 1/8"

Length as per rule

2'-2"

Distance apart

8 1/4"

Number and pitch of Stays in each

2- 8 1/4"

Working pressure by rules

130.

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

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

Fitted with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Survey request form

1625 attached

The foregoing is a correct description,

for Alex. Anderson &amp; Sons, J. Geddes, Manufacturer.

During progress of

work in shops -

Dec. 29. 23. 1915

Jan. 9. 26.

Feb. 2.

Mar. 11/24

Is the approved plan of boiler forwarded herewith

Yes

During erection on

board vessel -

26. Jun. 1. 8. 22.

Total No. of visits

11

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

This boiler has been built under  
 survey & in accordance with the approved plan. The materials and  
 workmanship are sound & good & the boiler is eligible in my opinion for the  
 working pressure of 130 lbs per sq in. The boiler has been satisfactorily  
 tested in the vessel & the safety valves adjusted.

Survey Fee

£ 2 : 2 :

When applied for

1915

Travelling Expenses (if any)

£ :

When received

1915

Committee's Minute

Transmit to London

GLASGOW

29 JUN. 1915

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

GLASGOW

22 FEB. 1916

TUES. 19 AUG 1924

See minute on file

Rpt. No. 35790

Lloyd's Register Foundation

L120-L69700-889700