

## REPORT ON BOILERS.

No. 30587.

MON. SEP. 18. 1911

Received at London Office

Description of Report

19

When handed in at Local Office

16-9-11. Port of Glasgow

Date, First Survey

11-1-11

Last Survey

7-6-

1911.

(Number of Visits

21.)

Gross

872

Tons

Net

794.

Survey held at

Glasgow.

Book.

on the

s/s Bargany

er

J. Black

Built at

Greenock

By whom built

Greenock &amp; Langemouth L.D.C.

When built

1911.

Rivets

made at

boatbridge

By whom made

W. T. T. Lidgerwood

when made

1911.

Plates

made at

Glasgow.

By whom made

Dunsmuir & Jackson L<sup>d</sup> (391)

when made

1911

ays

Registered Horse Power

138.

Owners

Paton &amp; Stenby

Port belonging to

Glasgow

L TITUBULAR BOILERS—MAIN, ~~ACCESSORY OR DONKEY~~—Manufacturers of Steel Calville

er for record

S

Total Heating Surface of Boilers

2542 ft<sup>2</sup>

Is forced draft fitted

No

No. and Description of

ers on Single Ended

Working Pressure

160

Tested by hydraulic pressure to

220

Date of test

12-5-11

of Certificate

10995

Can each boiler be worked separately

✓

Area of fire grate in each boiler

78 ft<sup>2</sup>

No. and Description of

y valves to each boiler

✓

Area of each valve

✓

Pressure to which they are adjusted

✓

they fitted with easing gear

✓

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

✓

Least distance between boilers or uptakes and bunkers or woodwork

✓

Mean dia. of boilers

16'-6"

Length

11'-0"

Material of shell plates

S

Thickness

13/16"

Range of tensile strength

28/32

Are the shell plates welded or flanged

✓

rip. of riveting: cir. seams

DR

long. seams

TR &amp; DBS

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

8 3/16"

width of butt straps

18 3/4"

Per centages of strength of longitudinal joint

rivets

87.25

Working pressure of shell by

plate

85.75

162.

Size of manhole in shell

16" x 12"

Size of compensating ring

80" x 7 1/2"

No. and Description of Furnaces in each

H Doughton Material

S

Outside diameter

3'-8"

Length of plain part

top

bottom

Thickness of plates

crown

1 1/2"

ription of longitudinal joint

weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

176

Combustion chamber

s: Material

S

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

13/16"

Pitch of stays to ditto: Sides

8 7/8" x 8 1/2"

Back

9 1/2" x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

163

Material of stays

S

Material of stays

S

Diameter at

small part

test part

176.198

Area supported by each stay

80 in<sup>2</sup>

Working pressure by rules

198

End plates in steam space: Material

S

Thickness

1 1/16"

of stays

19 1/2" x 15 1/4"

How are stays secured

DN

Working pressure by rules

171

Material of stays

S

Diameter at

smallest part

supported by each stay

297 in<sup>2</sup>

Working pressure by rules

185

Material of Front plates at bottom

S

Thickness

1"

Material of

back plate

S

Thickness

7/8"

Greatest pitch of stays

14 5/8" x 8 1/2"

Working pressure of plate by rules

205

Diameter of tubes

3 1/2"

of tubes

4 3/4" x 4 13/16"

Material of tube plates

S

Thickness: Front

1"

Back

13/16"

Mean pitch of stays

11 7/8"

Pitch across wide

spaces

14 1/2"

Working pressures by rules

170

Girders to Chamber tops: Material

Iron

Depth and thickness of

Diam.

of rivet

at centre

9" x 1" (2)

Length as per rule

3'-0" 2 1/2"

Distance apart

9 1/2"

Number and pitch of Stays in each

32

8 3/8"

Working pressure by rules

175

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

ately

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

How stayed

fitted 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

The foregoing is a correct description,

For DUNSMUIR &amp; JACKSON, Limited

Manufacturer.

No. 601 attached

During progress of

1911. Jan. 11. 18. 25. 31. Feb. 9. 13. 15. 23. Mar. 2. 9. 14. 17. Is the approved plan of boiler forwarded herewith

work in shops - - -

April 6. 19. 28. May 2. 10. 12. June 7.

Total No. of visits

21.

During erection on

board vessel - - -

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

This Boiler has been built under special Survey in accordance with the approved plan &amp; the workmanship &amp; material are of good quality

Survey Fee

Charged on Machinery Rptl:

When applied for,

19

Travelling Expenses (if any) £

When received,

19

Foreign Shipping

Gordon Muirhead

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

TUE. SEP. 26. 1911

Committee's Minute

Signed

13442.

1/11

1/11

1/11

1/11

1/11

1/11

1/11