

## REPORT ON BOILERS.

No. 35076

WED. APR. 28. 1915

Received at London Office

Date of writing Report

13. 4. 1915

When handed in at Local Office

23. 4. 1915

Port of

Glasgow.

No. in

Survey held at

Glasgow.

Date, First Survey

3/11/14

Last Survey

22. 4. 1915

Reg. Book.

on the

Boiler No. 660. St. Wheatstoeaf

(Number of Visits)

12

Gross

Tons

Net

Master

Built at

Ardrossan.

By whom built

Adams &amp; S. B. Co. (No. 263)

When built

1915

Engines made at

By whom made

When made

Boilers made at

Glasgow.

By whom made

A. &amp; G. Dalgleish (No. 660)

When made

1915.

Registered Horse Power

Owners

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Steel Co. of Scotland, D. Colville

(Letter for record

S.)

Total Heating Surface of Boilers

2000 sq. ft.

Is forced draft fitted

No

No. and Description of

Boilers

One single ended marine

Working Pressure

135 lbs.

Tested by hydraulic pressure to

240 lbs.

Date of test

22. 4. 15

No. of Certificate

13104

Can each boiler be worked separately

✓

Area of fire grate in each boiler

60.2 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

1/8 in.

Mean dia. of boilers

14'-6"

Length

10'-6"

Material of shell plates

Steel

Thickness

29/32"

Range of tensile strength

28/32

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

D. R.

long. seams

T. R. D. B. S.

Diameter of rivet holes in long. seams

15/16"

Pitch of rivets

6/8"

Top of plates: width of butt straps

13 3/4"

Per centages of strength of longitudinal joint

rivets

85.5

plate

85.8

Working pressure of shell by

rules

135 lbs.

Size of manhole in shell

16" x 12"

Size of compensating ring

6" x 1"

No. and Description of Furnaces in each

boiler

3 plain

Material

Steel

Outside diameter

3'-10"

Length of plain part

top

6'-8"

Thickness of plates

crown

5/16"

Description of longitudinal joint

weld

No. of strengthening rings

4

Working pressure of furnace by the rules

138 lbs.

Combustion chamber

plates: Material

Steel

Thickness: Sides

9/16"

Back

1/2"

Top

9/16"

Bottom

1"

Pitch of stays to ditto: Sides

8 x 8 1/2"

Back

4 1/2 x 8"

Top

4 1/2 x 8 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

144 lbs.

Material of stays

Steel

Diameter at

smallest part

1.24

Area supported by each stay

68 sq. in.

Working pressure by rules

145 lbs.

End plates in steam space: Material

Steel

Thickness

13/16"

Pitch of stays

14 x 14 1/2"

How are stays secured

D. N. S.

Working pressure by rules

145 lbs.

Material of stays

Steel

Diameter at smallest part

2.66"

Area supported by each stay

203 sq. in.

Working pressure by rules

135 lbs.

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

lower back plate

Steel

Thickness

1/4"

Greatest pitch of stays

13 1/2 x 8"

Working pressure of plate by rules

154 lbs.

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/2 x 4 1/2"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

2 1/2"

Mean pitch of stays

9 1/2 x 14 1/2"

Pitch across wide

water spaces

14 x 14 1/2"

Working pressures by rules

182 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

rider at centre

4 1/2 x 1/2"

Length as per rule

2'-4 1/2"

Distance apart

4 1/2"

Number and pitch of Stays in each

2-8 1/2 x 4 1/2"

Working pressure by rules

135 lbs.

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

✓

Pitch of rivets

✓

Working pressure of shell by rules

✓

Diameter of flue

✓

Material of flue plates

✓

Thickness

✓

End plates: Thickness

✓

How stayed

✓

Working pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

Survey request form

No. 1620

attached

The foregoing is a correct description,

A. &amp; G. Dalgleish

Manufacturers

Dates of Survey

During progress of work in shops - 1914 Nov 3-9-16 Dec 2-16-1915 Jan 12-28 Feb 3-19

while building

During erection on board vessel - March 22-Apr 9-22

Is the approved plan of boiler forwarded herewith

✓

Total No. of visits

12

## GENERAL REMARKS

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

The material and workmanship

are good. This boiler has been built under special survey and will be fitted aboard at Ardrossan. This boiler has been fitted on board the above vessel (Glasgow Report 35489)

Survey Fee

£ 6. 13. 0

When applied for

Travelling Expenses (if any) £

When received

101

MONTHLY ACCOUNT.

P. J. Brown

Committee's Minute

GLASGOW

27 APR. 1915

Assigned

TRANSMIT TO LONDON

Glasgow 5 - OCT. 1915

See minute on Gls. Rpt. 35489



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