

Rpt. 5a.

## REPORT ON BOILERS.

No. 36655

WED. 20 JUN. 1917

Date of writing Report

191

When handed in at Local Office

191

Port of

GLASGOW

No. in  
Reg. Book.

Survey held at

Glasgow

Date, First Survey

29-7-15

Last Survey

24-1-1917

(Number of Visits

34

Gross

5367

Net

3457

When built

1918

When made

1918

When made

1917

Port belonging to

London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel *Bolville & Co. Steel Co. Beauden*

(Letter for record

R

Total Heating Surface of Boilers

8535

Is forced draft fitted

Yes

No. and Description of

Boilers 3 Single Ended

Working Pressure

200

Tested by hydraulic pressure to

400

Date of test

24-1-17

No. of Certificate

13664

Can each boiler be worked separately

Area of fire grate in each boiler

4978

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

15-12 1/4

Length

12-0

Material of shell plates

S

Thickness

12 1/4

Range of tensile strength

28/32

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

D/R

long. seams

TR DBS

Diameter of rivet holes in long. seams

13/8

Pitch of rivets

9 1/16

Top of plates or width of butt straps

1-8 1/2

Per centages of strength of longitudinal joint

rivets

8534

plate

8534

Working pressure of shell by

rules

219

Size of manhole in shell

16 x 12

Size of compensating ring

4 1/4 x 1 1/2

No. and Description of Furnaces in each

boiler

3 Corrugated

Material

S

Outside diameter

3-10

Length of plain part

Description of longitudinal joint

weld

No. of strengthening rings

Working pressure of furnace by the rules

218

Combustion chamber

plates: Material

S

Thickness: Sides

21 1/32

Back

21 1/32

Top

21 1/32

Bottom

21 1/32

Top

8 3/8 x 8 3/4

If stays are fitted with nuts or riveted heads

DN

Working pressure by rules

204

Material of stays

Iron

Diameter at

smallest part

1985 1/2

Area supported by each stay

43

Pitch of stays

20 1/2 x 16 1/2

How are stays secured

DN

Working pressure by rules

219

Material of stays

S

Diameter at smallest part

6-33

Area supported by each stay

317

Working pressure by rules

208

Material of Front plates at bottom

S

Lower back plate

S

Thickness

3 1/32

Greatest pitch of stays

14 1/4 x 9 1/8

Working pressure of plate by rules

240

Diameter of tubes

2 1/2

Pitch of tubes

3 1/6 x 3 1/6

Material of tube plates

S

Thickness: Front

1 1/64

water spaces

13 1/2

Working pressures by rules

208

Girders to Chamber tops: Material

Iron

Depth and thickness of

girder at centre

10 x 1 (2)

Length as per rule

2-11 7/32

Distance apart

8 3/4

Number and pitch of Stays in each

3 at 8 3/8

Working pressure by rules

204

Superheater or Steam chest: how connected to boiler

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

Survey request form

No. 1702 attached

The foregoing is a correct description,

Jas. D. UNSMUIR &amp; JACKSON, Limited.

Manufacturer.

Dates of Survey: During progress of work in shops - 1915 July 29 Aug 9 Sept 30 Oct 20 1916 July 17 Aug 18 Sept 18 Oct 18 1917 July 13 17 25 Aug 3 15 26 27 28 29 30

while building: During erection on board vessel - 2-4-10-25 Nov 7-29 Dec 14 1917 Jan 8-19 24

Is the approved plan of boiler forwarded herewith *Yes*

Total No. of visits 34

## GENERAL REMARKS

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

These boilers have been built under special survey in accordance with the approved plan & the workmanship & material is of good quality. These boilers will be fitted on board at Greenock.

Survey Fee

...

£

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

Travelling Expenses (if any) £

...

£

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

...

Committee's Minute

GLASGOW

6-FEB-1917

TRANSMIT TO LONDON

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

GLASGOW.

25 JUN 1918

See Ex. No. 1702

JUN 6-JAN. 1920

W153-0076