

## REPORT ON BOILERS.

No. 9158

Received at London Office

FRI JUL 25 1924

-1 OCT 1925

Date of writing Report

1924

When handed in at Local Office

24th July 1924

Port of

Belfast

Date, First Survey May 29th, 1924

Last Survey

July 23rd 1924

No. in Survey held at

Reg. Book.

of the

D/D

"LLANDOVERY CASTLE"

(Number of Visits)

3

Gross

Tons

Net

Master

Built at

Glasgow

By whom built

Barclay Curle &amp; Co Ltd

When built

1924

Engines made at

Glasgow

By whom made

Barclay Curle &amp; Co Ltd

When made

1924

Boilers made at

Belfast

By whom made

Harland &amp; Wolff Ltd (507 A)

When made

1924

Registered Horse Power

Owners

Union Castle Steamship Co Ltd

Port belonging to

London

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

D. B. Shille &amp; Sons Ltd

(Letter for record

5)

Total Heating Surface of Boilers

14508 sq ft

Is forced draft fitted

no

No. and Description of

Boilers

Three double ended

Working Pressure

220 lbs

Tested by hydraulic pressure to

385 lbs

Date of test

29-5-24

No. of Certificate

839

Can each boiler be worked separately

yes

Area of fire grate in each boiler

129.2 sq ft

No. and Description of

safety valves to each boiler

3. backhums "High Lift"

Area of each valve

9.62 sq in

Pressure to which they are adjusted

225

Are they fitted with easing gear

yes

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

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

2'-3"

Mean dia. of boilers

15'-8"

Length

19'-10 3/4"

Material of shell plates

Steel

Thickness

1/2"

Range of tensile strength

30 to 34 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams T.R. &amp; D.R. long. seams T.R. &amp; D.R.

Diameter of rivet holes in long. seams

1 5/8"

Pitch of rivets

10 1/2"

Lap of plates width of butt straps

1'-11 3/4"

Per centages of strength of longitudinal joint

94.5

Working pressure of shell by

rules

225 lbs

Size of manhole in shell

16" x 12"

Size of compensating rings

3'-0" x 2'-8" x 1 1/2"

No. and Description of Furnaces in each

boiler

6 Corrugated

Material

Steel

Outside diameter

4'-2 1/2"

Length of plain part

top

Thickenss of plates

crown

2 1/2"

Description of longitudinal joint

weld.

No. of strengthening rings

yes

Working pressure of furnace by the rules

220 lbs

plates: Material

Steel

Thickness: Sides

2 1/2"

Back

yes

Top

Bottom

Pitch of stays to ditto: Sides

4' x 4' 1/2"

Back

Top 8 x 4

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

234 lbs

Material of stays

Steel

Diameter at

smallest part

1 1/2"

Area supported by each stay

64 sq in

Working pressure by rules

238 lbs

End plates in steam space: Material

Steel

Thickness

1 1/8"

Pitch of stays

16" x 16"

How are stays secured

S.N. Wash

Working pressure by rules

242 lbs

Material of stays

Steel

Diameter at smallest part

Area supported by each stay

272 sq in

Working pressure by rules

286 lbs

Material of Front plates at bottom

Steel

Thickness

1/8"

Material of

Lower back plate

yes

Thickness

yes

Greatest pitch of stays

14"

Working pressure of plate by rules

263 lbs

Diameter of tubes

Pitch of tubes

4" x 4"

Material of tube plates

Steel

Thickness: Front

7/8"

Back

Mean pitch of stays

8"

Pitch across wide

water spaces

girder at centre

2 @ 10" x 7 1/2"

Length as per rule

4-7 3/8"

Distance apart

2'-8"

Number and pitch of Stays in each

6 @ 8"

Working pressure by rules

343 lbs

Superheater or Steam chest: how connected to boiler

how

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

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

The foregoing is a correct description,

FOR HARLAND &amp; WOLFF LTD

F. K. K. Beck

Manufacturer.

Dates of Survey

During progress of work in shops - -

while building

board vessel - - -

1924

May 29, June 25, July 23 = 3

Is the approved plan of boiler forwarded herewith

yes

Total No. of visits

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

These Boilers have not been built under Special Survey. Materials & workmanship so far as could be seen good. Boilers have been thoroughly examined & results found in accordance with approved plan. Hydraulic tests satisfactory. They are being shipped to Glasgow for installation in the Vessel.

GLASGOW (1-9-25) These boilers have been satisfactorily fixed in the vessel and their safety valves adjusted.

Survey Fee

...

£2 10/-

When applied for

191

Travelling Expenses (if any)

£

free

When received

191

Changed at Glasgow & credited to Belfast.

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

Committee's Minute

GLASGOW 30 SEP 1925

Assigned

See Gls.

Rpt. No. 45020

Lloyd's Register

Foundation

W1091-0056