

## REPORT ON BOILERS.

No. 34181

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

Received at London Office WED. 17 OCT. 1917

No. in Survey held at

Glasgow

Reg. Book.

Date, First Survey

25th July 1914

Last Survey 8th Oct. 1914

on the

S.S. "Limeleaf" Replace Boiler (No. 418)

(Number of Visits 12)

Tons { Gross  
Net

Master

Built at

Glasgow

By whom built

Barclay Curle &amp; Co. Ltd. (538)

When built 1916

Engines made at

Glasgow

By whom made

Barclay Curle &amp; Co. Ltd. (538)

When made

1916

Boilers made at

Glasgow

By whom made

Barclay Curle &amp; Co. Ltd. (538)

When made

1917

Registered Horse Power

Owners

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record S)

Total Heating Surface of Boilers

3157 ft<sup>2</sup>

Is forced draft fitted

Yes

No. and Description of

Boilers

1 Single ended

Working Pressure

215

Tested by hydraulic pressure to

430

Date of test

8/10/17

No. of Certificate

18936

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

70.16

No. and Description of

safety valves to each boiler

1 pair direct spring

Area of each valve

9.62 ft<sup>2</sup>

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

16'-6"

Length

12'-0"

Material of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

31-35

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

tub. lap

long. seams

tub. butt

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

10 1/2"

Lap of plates

width of butt straps

23 1/4"

Per centages of strength of longitudinal joint

rivets 92.8

plate 84.3

Working pressure of shell by

rules

257

Size of manhole in shell

16" x 12"

Size of compensating ring

10 1/2" x 1 1/2"

No. and Description of Furnaces in each

boiler

4

Material

Steel

Description of longitudinal joint

Weld

No. of strengthening rings

—

Working pressure of furnace by the rules

236

Combustion chamber

plates: Material

Steel

Thickness: Sides

1/4"

Back

1/4"

Top

8 x 9

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

225

Material of stays

Steel

Diameter at

smallest part

2.03

Area supported by each stay

75 ft<sup>2</sup>

Pitch of stays

20 x 16"

How are stays secured

nuts

Working pressure by rules

219

Material of stays

Steel

Diameter at smallest part

7.86"

Lower back plate

Steel

Thickness

3/32"

Greatest pitch of stays

14 1/4"

Working pressure of plate by rules

216

Diameter of tubes

2 1/2"

Pitch of tubes

3 3/4" x 3 3/4"

Material of tube plates

Steel

Thickness: Front

3/32"

Back

1/16"

Mean pitch of stays

7 1/2"

Pitch across wide

water spaces

13 1/2"

Working pressures by rules

224

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder at centre

10 1/2" x 2 1/2"

Length as per rule

2'-10"

Distance apart

9"

Working pressure by rules

215

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

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

The foregoing is a correct description,

Manufacturer.

FOR BARCLAY, CURLE &amp; CO., LTD.

John Alexander

Manager

Dates

During progress of

work in shops - -

1914 July 25, 27, Aug. 6, 16, 14, 28, 29, Sep. 4, 5, 12, 15

while

During erection on

board vessel - - -

Oct. 8.

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

12

## GENERAL REMARKS

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

This boiler has been built

under special survey, the materials and workmanship

are of good description. The boiler is to be forwarded to Portsmouth

where it is to be fitted on board the vessel.

Survey Fee

£ 11-11

When applied for, 16/10/1917

Travelling Expenses (if any) £

When received, 12/11/1917

Committee's Minute GLASGOW

16 OCT 1917

Assigned TRANSMIT TO LONDON

A. McLeod

Engineer Surveyor to Lloyd's Register of Shipping

TUE. 20 JAN. 1920

FRI. 22 MAR. 1918

FRI. 17 JAN. 1919

TUE. FEB. 27 1923

W124-014

Lloyd's Register  
Foundation



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