

## REPORT ON BOILERS.

Son. Rpt. No. 10806.

No. 39336

Date of writing Report

191

When handed in at Local Office

10/11/1919

Port of

Glasgow

No. in Survey held at

Reg. Book.

Date, First Survey

21/3/18

Last Survey

1/11/1919

(Number of Visits)

24

Gross 435

Tons Net 200.2

Master

Built at

Glasgow

By whom built

Camper &amp; Nicholson

When built

1919

Engines made at

Chydebank

By whom made

Fitchison Blair &amp; Co

When made

1919

Boilers made at

Glasgow

By whom made

Forth Shipbuilding &amp; Eng. Coy

When made

1919

Registered Horse Power

Owners

Robinson, Brown &amp; Co Ltd

Port belonging to

Newcastle

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—

Manufacturers of Steel

Glasgow J &amp; S Co

(Letter for record

S

Total Heating Surface of Boilers

1486 Sq ft

Is forced draft fitted

No

No. and Description of

Boilers

One Single Ended

Working Pressure

130

Tested by hydraulic pressure to

260

Date of test

1/11/19

No. of Certificate

14962

Can each boiler be worked separately

No

Area of fire grate in each boiler

49.75 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

Sub

dia. of boilers

13'-0"

Length

10'-0"

Material of shell plates

S

Thickness

13/16

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap &amp; R

long. seams

Shell &amp; Lap Riv

Diameter of rivet holes in long. seams

15/16

Pitch of rivets

5 7/8

Lap of plates or width of butt straps

1'-3"

Per centages of strength of longitudinal joint

rivets 86

Working pressure of shell by

rules

130

Size of manhole in shell

12 1/2 x 16 1/2

Size of compensating ring

2' 6 1/2 x 2' 2 1/2 x 1/16

No. and Description of Furnaces in each

boiler

Three plain

Material

Steel

Outside diameter

44 in

Length of plain part

top 72 in

bottom 66 in

Thickness of plates

crown 3/8

bottom 3/8

Description of longitudinal joint

Weld

No. of strengthening rings

None

Working pressure of furnace by the rules

140

Combustion chamber

plates: Material

S

Thickness: Sides

19/32

Back

7/16

Top

19/32

Bottom

19/32

Pitch of stays to ditto: Sides

9x10

Back

9 1/4 x 9

Top 9x10

If stays are fitted with nuts or riveted heads

Lugs

Working pressure by rules

132

Material of stays

Steel

Area at

smallest part

145 sq in

Area supported by each stay

83 sq in

Working pressure by rules

139

End plates in steam space: Material

S

Thickness

7/16

Pitch of stays

18x17 1/2

How are stays secured

Lugs &amp; Washers

Working pressure by rules

131

Material of stays

S

Area at smallest part

143 sq in

Area supported by each stay

915 sq in

Working pressure by rules

141

Material of Front plates at bottom

S

Thickness

3/4

Material of

Lower back plate

S

Thickness

3/4

Greatest pitch of stays

14x9

Working pressure of plate by rules

140

Diameter of tubes

32

Pitch of tubes

4 7/8

Material of tube plates

S

Thickness: Front

3/4

Back

7/16

Mean pitch of stays

9 1/4

Pitch across wide

water spaces

girders to Chamber tops: Material

S

Depth and thickness of

girders at centre

7 3/4 x 11 1/2 x 2

Length as per rule

29 3/4

Distance apart

10"

Number and pitch of Stays in each

No 1 at 9 in

Working pressure by rules

141

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

## SUPERHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

Survey request form

The foregoing is a correct description,

FOR THE FORTH SHIPBUILDING &amp; ENGINEERING CO., LTD.

(LINDSAY BURNETT'S BOILER WORKS)

Manufacturer.

Dates of Survey: During progress of work in shops - 1918 Mar 21, Apr 2, 8, 10, 24, 29, May 10, 15, 21, 29; Is the approved plan of boiler forwarded herewith Yes

while building: During erection on board vessel - June 4, Aug 14, 20, Sept 3, 10, Oct 19, Mar 20, 25, May 13, Total No. of visits 24

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

The boiler has been built under special survey.

The workmanship and materials are good.

The Boiler has been efficiently fitted on board, and on trial proved satisfactory.

Survey Fee

£ 4 : 19 :

When applied for,

18. 11. 1919

Travelling Expenses (if any) £

When received,

19. 11. 1919

Committee's Minute

GLASGOW

18 NOV 1919

Assigned

TRANSMIT TO LONDON

FRI. 24 DEC. 1919

TUE. JAN. 18 1921

P. J. Hegor & A. R. Myle  
Engineer Surveyor to Lloyd's Register of Shipping.

005403-005411-0169