

## REPORT ON BOILERS.

No. 42563

Received at London Office

WED. MAR. 21 1923

Date of writing Report

19

When handed in at Local Office

19.3.1923 Port of Glasgow.

No. in Survey held at

Reg. Book.

on the

Date, First Survey

8.12.1922 Last Survey

9.3.1923

(Number of Visits 7)

Gross

Tons

Net

Master

Built at

By whom built

When built

Engines made at

By whom made

When made

Boilers made at

By whom made

When made

Registered Horse Power

Owners

Port belonging to

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

(Letter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of

Boilers One single ended.

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of

safety valves to each boiler

2: direct spring

Area of each valve

Pressure to which they are adjusted

140 lbs./in.<sup>2</sup>

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

well clear

Mean dia. of boilers

11'6"

Length

9'6"

Material of shell plates

S.

Thickness

25/32"

Range of tensile strength

28/32"

Are the shell plates welded or flanged

No.

Descrip. of riveting: cir. seams

D.R.

long. seams

D.R.

D.B.S.

Diameter of rivet holes in long. seams

1"

Pitch of rivets

5 1/4"

Lap of plates or width of butt straps

10 1/2"

Per centages of strength of longitudinal joint

rivets

88.4.

Working pressure of shell by

rules

Size of manhole in shell

16" x 12"

Size of compensating ring

2'4" x 2'3"

No. and Description of Furnaces in each

boiler

Two plain

Material

S.

Outside diameter

3'6 1/8"

Length of plain part

top

41"

Thickness of plates

crown

2 1/2"

bottom

1 3/8"

Description of longitudinal joint

Weld.

No. of strengthening rings

Working pressure of furnace by the rules

144.

Combustion chamber

plates: Material

S.

Thickness: Sides

9/16"

Back

9/16"

Top

9/16"

Bottom

9/16"

Pitch of stays to ditto: Sides

9" x 8"

Top

8 1/4" x 8"

If stays are fitted with nuts or riveted heads

nuts.

Working pressure by rules

145

Material of stays

S.

Area at

smallest part

29/32"

Area supported by each stay

1446

Working pressure by rules

164

End plates in steam space: Material

S.

Thickness

29/32"

Pitch of stays

16" x 16"

How are stays secured

D. nuts

Working pressure by rules

144

Material of stays

S.

Area at

smallest part

3'43"

Area supported by each stay

2560

Working pressure by rules

135

Material of Front plates at bottom

S.

Thickness

23/32"

Material of

Lower back plate

S.

Thickness

23/32"

Greatest pitch of stays

18" DIA.

Working pressure of plate by rules

140.

Diameter of tubes

3 1/2"

Pitch of tubes

4 1/4" x 4 1/4"

Material of tube plates

S.

Thickness: Front

23/32"

Back

23/32"

Mean pitch of stays

11"

Pitch across wide

water spaces

14"

Working pressures by rules

152.

Girders to Chamber tops: Material

S.

Depth and thickness of

girder at centre

2'6" x 1/8"

Length as per rule

2'3"

Distance apart

8 1/4"

Number and pitch of Stays in each

2-8"

Working pressure by rules

135.

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

Is Easing Gear fitted

Diameter of Safety Valve

Pressure to which each is adjusted

The foregoing is a correct description,

FOR THE FORTH SHIPBUILDING &amp; ENGINEERING CO. (LINDSAY BURNET'S BOILER WORKS)

Signature

Manufacturer.

Annual Survey Request.

Dates of Survey

During progress of work in shops

1922 Dec 8.14

1923 Jan 16.25

1923 Mar 9.

Is the approved plan of boiler forwarded herewith

Yes.

while building

During erection on board vessel

Total No. of visits

7

GENERAL REMARKS

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

The boiler has been built

under special survey in accordance with the approved plan. The

materials and workmanship are good.

This boiler has now been secured on board and tried under steam

with satisfactory results: safety valves adjusted as above. 19-6-23

Survey Fee

£ 7:2 0

When applied for

20/3/23

When received

23/3/23

19.23

Travelling Expenses (if any)

£

When received

23/3/23

19.23

Committee's Minute

Assigned

GLASGOW

20 MAR 1923

TRANSMIT TO LONDON

Lloyd's Register

Foundation

002109-002118-0013