

REPORT ON BOILERS

No. 39597

Date of writing Report

191

When handed in at Local Office

9. 2. 1920

Received at London Office

No. in
Reg. Book.

Survey held at

Dalmuir

Port of Glasgow

Date, First Survey

14/10/18

Last Survey

20/5/1919

(Number of Visits 15)

Gross 4964
Net 4985

Master

Built at

Glasgow

By whom built

Barclay & C^o

Engines made at

Glasgow

By whom made

No.

Boilers made at

Dalmuir

By whom made

Tom Beardon & Co (888)

When made

1920

Registered Horse Power

Owners

When made

1919

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record

S)

Total Heating Surface of Boilers

5112

Is forced draft fitted

Yes

No. and Description of

Boilers 2 Single ended

Working Pressure

200

Tested by hydraulic pressure to

400

Date of test

15/5/19

No. of Certificate

14734

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63.3

No. and Description of

safety valves to each boiler

2 Spring loaded

Area of each valve

9.62

Pressure to which they are adjusted

200 lb

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

Mean dia. of boilers

15' 6"

Length

11' 6"

Material of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

28 & 32

Are the shell plates welded or flanged

Welded

Descrip. of riveting: cir. seams

Lap double

long. seams

Butt triple

Diameter of rivet holes in long. seams

1 1/4"

Pitch of rivets

9.8125

Lap of plates or width of butt straps

2 1/2"

Per centages of strength of longitudinal joint

rivets 89.4

plate 85.3

Working pressure of shell by

rules 200

Size of manhole in shell

16 x 12

Size of compensating ring

flanged 37 1/2 x 33

No. and Description of Furnaces in each

top

bottom

Thickness of plates

crown 3/8"

bottom 3/8"

boiler 3 Deighton

Material

Steel

Outside diameter

50 1/2"

Length of plain part

top

bottom

Working pressure of furnace by the rules

200

Combustion chamber

Description of longitudinal joint

Welded

No. of strengthening rings

25

Back

3/4

Top

25

Bottom

25

Pitch of stays to ditto: Sides

10 7/8 x 9 1/4"

Back

10 1/4 x 8 3/4"

Material

Steel

Thickness: Sides

25

Back

3/4

Top

25

Bottom

25

Pitch of stays to ditto: Sides

10 7/8 x 9 1/4"

Back

10 1/4 x 8 3/4"

Top

9 1/4 x 10 3/8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

212

Material of stays

Steel

Diameter at

smallest part

9.62"

Area supported by each stay

4.45

Working pressure by rules

207

Material of Front plates at bottom

Steel

Thickness

7/8"

Material of

plates

Thickness

7/8"

Material of

tubes

Thickness

2 3/4"

Pitch of tubes

3 3/8 x 4"

Material of tube plates

Steel

Thickness: Front

1"

Back

3/4"

Mean pitch of stays

9.6875

Pitch across wide

13 5/8"

Girders to Chamber tops: Material

Steel

Depth and thickness of

Number and pitch of Stays in each

(3) 9 1/4"

Can the superheater be shut off and the boiler worked

No

Superheater or Steam chest: how connected to boiler

None

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

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

Yes

Survey request form

2203

attached to G.L.B. Rpt No. 39344

The foregoing is a correct description,

Manufacturer.

During progress of work in shops

During erection on board vessel

1918 Oct 14 Nov 5 Dec 5 18 1919 Jan 19 Feb 25

Is the approved plan of boiler forwarded herewith

Yes

Total No. of visits

15

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

These boilers have been built under special survey the materials and workmanship are of good description.

These boilers have now been satisfactorily fitted to the vessel.

See accompanying machinery report.

Survey Fee

Travelling Expenses (if any)

When applied for

When received

191

191

Committee's Minute

GLASGOW 10 FEB 1920

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

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