

REPORT ON BOILERS.

No. 38198.

WED. 27 NOV. 1918

Received at London Office

Description of

Date of writing Report

28 Sep 1918

When handed in at Local Office

Port of

Glasgow

No. in Survey held at

Glasgow

Date, First Survey

18 June 1914

Last Survey

19 Sept 1918

Reg. Book.

on the Marine Boiler designated N° 1646. for S.S. "ST ENOCH"

(Number of Visits)

26

Gross

Net

Built at

Bowling

By whom built

Scott & Sons N° 265 Kavel

When built

1918

Engines made at

Paisley

By whom made

Fisher & Co N° 219

When made

1918

Boilers made at

Glasgow

By whom made

Lindsay Burnet & Co.

When made

1918

Registered Horse Power

66

Owners

J. A. Gardner & Co. Ltd.

Port belonging to

Glasgow

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

Glasgow Iron & Steel Co.

Letter for record

S

Total Heating Surface of Boilers

1360 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

19/9/18

No. of Certificate

14465

Can each boiler be worked separately

One

Area of fire grate in each boiler

43.24 sq. ft.

No. and Description of

Safety valves to each boiler

Pair Spring loaded

Area of each valve

3.9390"

Pressure to which they are adjusted

135 lbs.

Are they fitted with easing gear

Yes

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

None

Smallest distance between boilers or uptakes and bunkers or woodwork

4'-6"

Dia. of boilers

12'-6"

Length

10'-0"

Material of shell plates

Steel

Thickness

3/16

Range of tensile strength

28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap & R.

long. seams

Butt & Staked

Diameter of rivet holes in long. seams

1"

Pitch of rivets

5 1/4"

Top of plates

width of butt straps

10 1/2"

Per centages of strength of longitudinal joint

rivets 82.5

Working pressure of shell by

rules

130

Size of manhole in shell

16 1/2" x 12 1/2"

Size of compensating ring

2'-3" x 2'-7" x 3/16"

No. and Description of Furnaces in each

boiler

No plain

Material

Steel

Outside diameter

3'-8 1/2"

Length of plain part

top 2'-3"

Thickness of plates

crown 3/16"

bottom 3/32"

Description of longitudinal joint

Heel

No. of strengthening rings

One

Working pressure of furnace by the rules

139

Combustion chamber

plates: Material

Steel

Thickness: Sides

3/16"

Back

3/16"

Top

3/16"

Bottom

3/16"

Pitch of stays to ditto: Sides

9' x 8 1/2"

Back

9' x 8 1/2"

Top Inders

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

135

Material of stays

Steel

Diameter at

smallest part

145 Sq. in.

Area supported by each stay

81 Sq. in.

Working pressure by rules

143

End plates in steam space: Material

Steel

Thickness

15/16"

Pitch of stays

17' x 17'

How are stays secured

Double Nuts

Working pressure by rules

131

Material of stays

Steel

Diameter at

smallest part 3.85 Sq. in.

Area supported by each stay

289 Sq. in.

Working pressure by rules

138

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

Lower back plate

Steel

Thickness

1/16"

Greatest pitch of stays

14' x 8 1/8"

Working pressure of plate by rules

240

Diameter of tubes

3 1/2"

Pitch of tubes

4 3/16"

Material of tube plates

Steel

Thickness: Front

3/4"

Back

3/4"

Mean pitch of stays

10 3/4"

Pitch across wide

water spaces

14"

girders to Chamber tops: Material

Steel

Depth and thickness of

girders at centre

6 1/2' x 3 1/4' x 2"

Length as per rule

27 1/4"

Distance apart

9"

Number and pitch of Stays in each

In at 8 1/4"

Working pressure by rules

143

Superheater or Steam chest: how connected to boiler

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

Survey request form

The foregoing is a correct description,

No. 2024

attached

Lindsay Burnet & Co

Manufacturer.

Dates

During progress of

19 June 18, July 24, Aug. 2, 21, 29, Sept. 6, 9, 26, Oct. 16, Nov. 5, 29

Is the approved plan of boiler forwarded herewith

Yes

while

During erection on

Dec. 5, 1918 Jan. 30, Feb. 4, May 29, June 11, 15, 25, July 9

Total No. of visits

26

building

board vessel

Aug. 6, 14, 26, Sept. 3, 10, 16, 17

GENERAL REMARKS

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

The boiler has been built under

special survey. The workmanship & material is good.

The boiler has now been securely fitted on board the vessel & its safety valves adjusted under steam

Survey Fee

£ 4 : 11 : 0

When applied for

2-10-

1918

Travelling Expenses (if any) £

When received

20-11-

1918

Committee's Minute

GLASGOW. 2-OCT 1918

Assigned

TRANSMIT TO LONDON

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

Peter W. Hegor.

Fred. A. Ferguson

25/11/18

See Glasgow Report

Lloyd's Register

No. 38324

001330-001334-0187