

REPORT ON BOILERS.

No. 38646.

Received at London Office

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

No. in Survey held at

Rugru

Date, First Survey 29th Jan 1918.Last Survey Feb 26th 1919.

1919.

Reg. Book.

on the S.S. "Lombardier" ex "War Jay".

(Number of Visits 17.)

Gross

Tons }
Net

Master

Built at

Glasgow

By whom built

Lloyds Royal Belg. S. B. L^{td} (N^o 8)

When built 1919

Engines made at

Glasgow

By whom made

North British Diesel Eng^g L^{td} (17)

When made 1919

Boilers made at

Rugru

By whom made

Wm Simons & Co L^{td} (626) A

When made 1918.

Registered Horse Power

Owners Lloyds Royal Belg. Societe Anonyme

Port belonging to Antwerp.

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

(Letter for record

(3)

Total Heating Surface of Boilers 2886^{sq} ft

Is forced draft fitted

No. and Description of

Boilers 2 Single ended

Working Pressure 180

Tested by hydraulic pressure to 360

Date of test 7/10/18

No. of Certificate 14484 Can each boiler be worked separately

Area of fire grate in each boiler 48.56

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

Mean dia. of boilers 13-0

Length 10' 6"

Material of shell plates *Steel*Thickness 1¹/₁₆"

Range of tensile strength 28 to 32

Are the shell plates welded or flanged 220

Descrip. of riveting: cir. seams *Lap double long. seams triple butt*Diameter of rivet holes in long. seams 1¹/₈" Pitch of rivets 8Lap of plates or width of butt straps 16³/₈"

Per centages of strength of longitudinal joint rivets 86.9

Working pressure of shell by

rules 181

Size of manhole in shell 20¹/₂ x 16¹/₂"Size of compensating ring 31³/₄ x 27³/₄ x 1¹/₁₆"

No. and Description of Furnaces in each

boiler 3 Dighton

Material *Steel*Outside diameter 4¹/₄"

Length of plain part

top

Thickness of plates

crown

bottom

Description of longitudinal joint *Weld*

No. of strengthening rings

Working pressure of furnace by the rules 182

Combustion chamber

plates: Material *Steel* Thickness: Sides 5⁷/₈"Back 5⁷/₈"Top 5⁷/₈"Bottom 4¹/₁₆"Pitch of stays to ditto: Sides 8³/₄ x 8³/₄"Back 8³/₄ x 8³/₄"Top 8³/₄ x 8³/₄"Bottom 8³/₄ x 8³/₄"Top 8³/₄ x 8³/₄" If stays are fitted with nuts or riveted heads *nuts*

Working pressure by rules 181

Material of stays *Steel*

Diameter at

smallest part 1¹/₈"Area supported by each stay 74¹/₂"

Working pressure by rules 185

End plates in steam space: Material *Steel* Thickness 1¹/₄"

Diameter at smallest part 7.24"

Pitch of stays 22³/₈"

How are stays secured 2 7/8" 7/8"

Working pressure by rules 188

Material of stays *Steel*

Diameter at smallest part 7.24"

Area supported by each stay 395

Working pressure by rules 190

Material of Front plates at bottom *Steel*

Thickness 1"

Material of

Lower back plate *Steel*Thickness 1³/₁₆"

Greatest pitch of stays 13"

Pitch of tubes 4⁷/₁₆ x 4³/₈"Material of tube plates *Steel*

Thickness: Front 1"

Back 3³/₄"Mean pitch of stays 11⁵/₈"

Pitch across wide

water spaces 14"

Working pressures by rules 182

Girders to Chamber tops: Material *Steel*

Depth and thickness of

girder at centre 8⁷/₈ x 4¹/₁₆"Length as per rule 30¹/₂"Distance apart 8³/₄"Number and pitch of Stays in each (2) 8³/₄"

Working pressure by rules 186

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 186

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

Survey required from

2165

attached

WM. SIMONS & CO., LTD.

The foregoing is a correct description,

Wm. Simons

SECRETARY

Manufacturer.

Dates

During progress of

(1918) Jan 29, Mar 19, Apr 19, May 16, 30, June 10, 14

Is the approved plan of boiler forwarded herewith

No

Total No. of visits

17

while

During erection on

board vessel

Feb 2, Aug 9, Sept 14, 17, Oct 7, 30 (1919) Jan 20, Feb 26

building

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.**Boilers have now been fitted on board and tried under steam satisfactorily.*

Survey Fee

When applied for, 191

Travelling Expenses (if any) £

When received, 191

Committee's Minute

GLASGOW 23 APR 1919

Assigned

*See attached machinery report.**Harry Clarke*

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

Lloyd's Register Foundation

W1121-0205