

## REPORT ON BOILERS.

No. 39608.  
WED. FEB. 11/1920

Received at London Office

Date of writing Report

191

When handed in at Local Office

28-6-1919 Port of Glasgow

No. in Survey held at Glasgow

Date, First Survey 26<sup>th</sup> Dec, 1918. Last Survey 27<sup>th</sup> June 1919.

Reg. Book.

on the Books no B 113.

SSTREVERBYN

(Number of Visits 21)

Gross  
Tons  
Net

Master

Built at Glasgow

By whom built

Harland &amp; Wolff Ltd (no 530) When built 1920

Engines made at

Glasgow

By whom made

Harland &amp; Wolff Ltd (no 561) When made 1920

Boilers made at

Glasgow

By whom made

Dunsmuir &amp; Jackson. B no B 113

When made 1919

Registered Horse Power

Owners Hain SS Co Ltd

Port belonging to St. Ives

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

J. Colville &amp; Co

Letter for record S

Total Heating Surface of Boilers 7668  $\text{sq ft}$ 

Is forced draft fitted

Yes

No. and Description of

Boilers 3 Multitubular Single Ended

Working Pressure 180

Tested by hydraulic pressure to 360 lbs

Date of test 25/27/19

No. of Certificate 14792

14800

Can each boiler be worked separately

Yes

Area of fire grate in each boiler 63.3  $\text{sq ft}$ 

No. and Description of

Safety valves to each boiler 2 Spring loaded

Area of each valve 9.627

Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear

Yes

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 1-9"

dia. of boilers 15'-6"

Length 11'-6"

Material of shell plates S

Thickness 1 1/4"

Range of tensile strength 28/32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams L.D.R.

long. seams S. Straps. T.R.

Diameter of rivet holes in long. seams 1 5/16"

Pitch of rivets 9/8"

Width of butt straps 19 1/2"

Per centages of strength of longitudinal joint rivets 88.3

plate 85.6

Working pressure of shell by

No. 182

Size of manhole in shell 16" x 12"

Size of compensating ring Flanged plate

No. and Description of Furnaces in each

Material S

Outside diameter 50 3/16"

Length of plain part top

bottom

Thickness of plates crown

bottom 19 1/32"

Description of longitudinal joint welded

No. of strengthening rings none

Working pressure of furnace by the rules 182

Combustion chamber

Material S

Thickness: Sides 23/32"

Back 1 1/16"

Top 23/32"

Bottom 23/32"

Pitch of stays to ditto: Sides 10 3/8" x 9 1/4" Back 10 1/4" x 8 3/4"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 180

Material of stays S

Area at

Smallest part 2 3/4"

Area supported by each stay 98.2

Working pressure by rules 219

End plates in steam space: Material S

Thickness 1 1/32"

How are stays secured S. nuts

Working pressure by rules 180

Material of stays S

Area at

smallest part 8.29

Area supported by each stay 4/3

Working pressure by rules 182

Material of Front plates at bottom S

Thickness 3/32"

Material of

Back plate S

Thickness 27/32"

Greatest pitch of stays 13 5/8" x 8 3/4"

Working pressure of plate by rules 203

Diameter of tubes 2 3/4"

Pitch of tubes 4" x 3 7/8"

Material of tube plates S

Thickness: Front 3/32"

Back 3/4"

Mean pitch of stays 9 7/8"

Pitch across wide

Spaces 13 5/8"

Working pressures by rules 183

Girders to Chamber tops: Material S

Depth and thickness of

At centre 10" x 1 3/4"

Length as per rule 35 9/16"

Distance apart 10 5/8"

Number and pitch of Stays in each 3 @ 9 1/4"

Working pressure by rules 187

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

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

Stays fitted 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

DUNSMUIR &amp; JACKSON, Limited.

The foregoing is a correct description,

James Allen Director

Manufacturer.

During progress of 1918 Dec 26 1919 Jan 23 Feb 10 18 24 Mar 5 10 14 24 Apr 2 Is the approved plan of boiler forwarded herewith Yes

During erection on 29 May 6 13 26 30 June 5 9 12 14 23 27

Total No. of visits 21.

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

These boilers have been built under special survey and in accordance with the Rules; the materials and workmanship are sound and good. On completion they were tested by water pressure to 360 lbs and found tight and satisfactory.

These Boilers have now been satisfactorily fitted to

Vessel

Jas Easthope 3-2-20

Survey Fee ... £ 11 : 9 : When applied for, 27/12/1919

Travelling Expenses (if any) £ : : When received, 2/1/1920

Committee's Minute

GLASGOW

10 FEB 1920

See accompanying machinery report.

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

Committee's Minute

GLASGOW

10 FEB 1920

See accompanying machinery report.

FRI. DEC. 31 1920

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Lloyd's Register

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