

Rpt. 5a.

## REPORT ON BOILERS.

No. 45469

Date of writing Report

26 June 1926

When handed in at Local Office

26.6.1926

Received at London Office

30 JUN 1926

No. in  
Reg. Book.

Survey held at

Glasgow.

Port of Glasgow.

Date, First Survey

3rd Mar 1926

Last Survey

22.6.1926

(Number of Visits 33)

Tons { Gross  
Net

Master

Built at

By whom built

Yard No.

When built

Engines made at

Leith

By whom made

John Crum &amp; Son, Leith

Engine No.

When made

Boilers made at

Glasgow.

By whom made

The 7th SB &amp; EC (1921) Ltd

Boiler No.

When made

Nominal Horse Power

147

Owners

Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

The Steel Co of Scotland Ltd.

Total Heating Surface of Boilers

2200 sq ft

Is forced draught fitted

(Letter for Record S. ✓)

No. and Description of Boiler

One Cyl. Mult. Single ended

Coal or Oil fired

Tested by hydraulic pressure to

350 lb

Date of test

22.6.26

No. of Certificate

17152

Working Pressure 200 lb

Area of Firegrate in each Boiler

64.5 sq ft

No. and Description of safety valves to each boiler

Can each boiler be worked separately

Area of each set of valves per boiler

{ per Rule  
as fitted

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

Is oil fuel carried in the double bottom under boilers

Smallest distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

Largest internal dia. of boiler

15'-6"

Length

10'-6"

Shell plates: Material

S. ✓

Tensile strength

28/32 T. ✓

Thickness

1 1/32"

Are the shell plates welded or flanged

No.

Description of riveting: circ. seams

end

LDR ✓

Long. seams

D.B.S./T.R. ✓

Diameter of rivet holes in

{ circ. seams  
long. seams

17/16"

Pitch of rivets

4 1/4"

Percentage of strength of circ. end seams

{ plate  
rivets

66.2

Percentage of strength of circ. intermediate seam

{ plate  
rivets

Percentage of strength of longitudinal joint

{ plate  
rivets

85.25

Working pressure of shell by Rules

200.6 lb

Thickness of butt straps

{ outer  
inner

1 1/8"

No. and Description of Furnaces in each Boiler

3. Yarrow.

Tensile strength

26/30 T. ✓

Smallest outside diameter

47 5/16"

Length of plain part

{ top  
bottom

✓

Thickness of plates

{ crown  
bottom

2 1/32"

Description of longitudinal joint

Weld.

Dimensions of stiffening rings on furnace or c.c. bottom

None.

Working pressure of furnace by Rules

203 lb

End plates in steam space: Material

S. ✓

Tensile strength

26/30 T. ✓

Thickness

1 1/8"

Pitch of stays

19 x 15"

How are stays secured

D.N. ✓

End plates: Material

{ front  
back

S. ✓

Tensile strength

26/30 T. ✓

Working pressure by Rules

204 lb

Thickness

1 1/8"

Working pressure

{ front  
back

222 lb

Can pitch of stay tubes in nests

1 1/8 x 9 1/2"

Pitch across wide water spaces

14"

Depth and thickness of girder

Orders to combustion chamber tops: Material

S. ✓

Tensile strength

28/32 T. ✓

No. and pitch of stays

Centre

8 x 1 1/2"

Length as per Rule

29"

Distance apart

8 3/4"

Each

2 @ 9 1/4"

Working pressure by Rules

228 lb

Combustion chamber plates: Material

S. ✓

Tensile strength

26/30 T. ✓

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

7/8"

Pitch of stays to ditto: Sides

9 3/4 x 8 3/4"

Back

9 3/4 x 8 3/4"

Top

9 3/4 x 8 3/4"

Working pressure by Rules

203 lb

Front plate at bottom: Material

S. ✓

Tensile strength

26/30 T. ✓

Thickness

7/8"

Lower back plate: Material

S. ✓

Tensile strength

26/30 T. ✓

Thickness

7/8"

Pitch of stays at wide water space

14 x 8 3/4"

Are stays fitted with nuts or riveted over

Nut

Working Pressure

237 lb

Main stays: Material

S. ✓

Tensile strength

28/32 T. ✓

At body of stay,

27/8"

Over threads

27/8"

No. of threads per inch

6

Area supported by each stay

285 sq in

Working pressure by Rules

214 lb

Screw stays: Material

S. ✓

Tensile strength

26/30 T. ✓

At turned off part,

1 3/4"

Over threads

1 3/4"

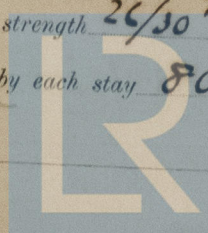
No. of threads per inch

9

Area supported by each stay

80.4 sq in

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Foundation



Working pressure by Rules **226 u** Are the stays drilled at the outer ends **No** Margin stays: Diameter { At turned off part, **5/8** ✓  
 No. of threads per inch **9** ✓ Area supported by each stay **980** ✓ Over threads  
 Tubes: Material **I.** External diameter { Plain **3 1/2** ✓ Working pressure by Rules **217 u**  
 Pitch of tubes **4 3/4 x 4 3/4** Thickness { **8 W.G.** ✓ No. of threads per inch **9**  
 shell plate **16 1/4 x 12 1/4** Working pressure by Rules **204 u** Manhole compensation: Size of opening in  
 Section of compensating ring **17 x 1 3/32** ✓ No. of rivets and diameter of rivet holes **32 - 1 7/16** ✓  
 Outer row rivet pitch at ends **10** ✓ Depth of flange if manhole flanged **-** Steam Dome: Material **None**  
 Tensile strength Thickness of shell Description of longitudinal joint  
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate  
 Internal diameter Working pressure by Rules Thickness of crown Rivets  
 stays Inner radius of crown Working pressure by Rules No. and diameter of  
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch  
 of rivets in outer row in dome connection to shell  
 Type of Superheater Manufacturers of { Tubes  
 Number of elements Material of tubes Steel castings  
 Material of headers Tensile strength Internal diameter and thickness of tubes  
 the boiler be worked separately Thickness Can the superheater be shut off and  
 Area of each safety valve Is a safety valve fitted to every part of the superheater which can be shut off from the boiler  
 Rules Are the safety valves fitted with easing gear Working pressure as per  
 tubes Pressure to which the safety valves are adjusted Hydraulic test pressure:  
 , castings and after assembly in place Are drain cocks or valves fitted  
 to free the superheater from water where necessary  
 Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with

The foregoing is a correct description,  
 FOR THE FORTH SHIPBUILDING & ENGINEERING CO. (1921)  
 (LINDSAY BURNETT'S BOILER WORKS) **W. L. Lane** Manufacturer.  
 Dates of Survey { During progress of **1926 Mar 3-6-10-12-16-19-23-25-29** Are the approved plans of boiler and superheater forwarded herewith **Yes**  
 while work in shops - - - **Apr 1-6-9-13-15-19-22-28-30 May 4-7-11** (If not state date of approval.)  
 building { During erection on **13-14-20-24-26-28 June 4-8-11-13-21-22** Total No. of visits **33**  
 board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This boiler has been constructed under special survey in accordance with the Rules. The materials and workmanship employed in its manufacture are sound and good. It will be fitted on board the Wand & Leith**

Survey Fee ... **£14:14:0** When applied for **29 JUN 1926**  
 Travelling Expenses (if any) **£ -** When received **30.6.1926**  
**W. L. Lane**  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 29 JUN 1926**  
 Assigned **TRANSMIT TO LONDON**

88C 26.6.26.

FRI 17 SEP 1926

See Lth. L.R. No. 16997

