

Rpt. 5a.

REPORT ON BOILERS.

No. 34893

WED. MAR. 3-1915

Received at London Office

Date of writing Report 23.2.1915

When handed in at Local Office

Port of **GLASGOW**

No. in Survey held at **Glasgow**

Date, First Survey **3/11/14** Last Survey **19/2/1915**

Reg. Book.

on the **MAIN BOILER OF THE STM. TRAWL "ALIDA"**

(Number of Visits **17**) Tons } Gross } Net

Master Built at **Dundee**

By whom built **Dundee SBC Co. (275)**

When built

Engines made at **Coathridge**

By whom made **Lidgerwood & Co. 464**

When made

Boilers made at **Glasgow**

By whom made **Dunsmuir & Jackson Ltd. BHE** When made **1915**

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel **J. & W. Colvill, Dundee, Beadnell**

(Letter for record **S**) Total Heating Surface of Boilers **1542 sq ft**

Is forced draft fitted **No**

No. and Description of Boilers **one Single Ended**

Working Pressure **200**

Tested by hydraulic pressure to **400**

Date of test **19.2.15**

No. of Certificate **13786** Can each boiler be worked separately

Area of fire grate in each boiler **54 sq ft**

No. and Description of safety valves to each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with casing 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 **13-7 1/32** Length **11-6**

Material of shell plates **S** Thickness **17/32**

Range of tensile strength **28-32** Are the shell plates welded or flanged

Description of riveting: cir. seams **DR**

long. seams **TR, DBS**

Diameter of rivet holes in long. seams **1 1/4** Pitch of rivets **8 3/8**

Width of butt straps **1-7**

Per centages of strength of longitudinal joint rivets **86.7**

Working pressure of shell by rules **203**

Size of manhole in shell **16 x 12**

Size of compensating ring **4 x 1 1/4**

No. and Description of Furnaces in each

3 plain

Material **S**

Outside diameter **3-5 1/2**

Length of plain part **6-7**

Thickness of plates **13/16**

Description of longitudinal joint **weld**

No. of strengthening rings **one**

Working pressure of furnace by the rules **200**

Combustion chamber

Material **S**

Thickness: Sides **23/32**

Back **23/32**

Top **23/32**

Bottom **15/16**

Pitch of stays to ditto: Sides **9 x 9**

Back **9 3/8 x 9 3/8**

If stays are fitted with nuts or riveted heads **DN**

Working pressure by rules **204**

Material of stays **S**

Diameter at

Area supported by each stay **88 sq in**

Working pressure by rules **205**

End plates in steam space: Material **S**

Thickness **1 1/4**

How are stays secured **DN**

Working pressure by rules **204**

Material of stays **S**

Diameter at smallest part **6.9**

Area supported by each stay **342 sq in**

Working pressure by rules **210**

Material of Front plates at bottom **S**

Thickness **13/32**

Material of back plate **S**

Thickness **31/32**

Greatest pitch of stays **14 7/8 x 9 3/8**

Working pressure of plate by rules **235**

Diameter of tubes **3 1/2**

Material of tube plates **S**

Thickness: Front **13/32**

Back **29/32**

Mean pitch of stays **12**

Pitch across wide

Working pressures by rules **205**

Girders to Chamber tops: Material **iron**

Depth and thickness of

Length as per rule **36 3/8**

Distance apart **8 7/8 + 10**

Number and pitch of Stays in each **3 at 8 3/4**

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

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 casing gear

Survey request form

DUNSMUIR & JACKSON, Limited.

The foregoing is a correct description,

1598 attached

J. Dunsmuir Director, Manufacturer.

Dates During progress of work in shops: 1914. Nov. 3, 9, 12, 17, 27, 30. Dec. 7, 14, 18, 1915. Jan. 11, 12. Is the approved plan of boiler forwarded herewith **Yes**

Total No. of visits **17**

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

This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. This boiler is being forwarded to Dundee, at which port it will be fitted & loaded.

Survey Fee ...
When applied for, 191...
When received, 191...

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

Committee's Minute **GLASGOW** 2-MAR. 1915
Assigned TRANSMIT TO LONDON

