

REPORT ON BOILERS.

No. 34860.

Received at London Office WED. FEB. 24, 1915

Port of **GLASGOW**

When handed in at Local Office **16th Feb 1915**

Survey held at **Glasgow** Date, First Survey **24/8/14** Last Survey **572/ 1915**

Reg. Book. **Marine Boiler designated No 3375** (Number of Visits **25**) Gross **50.39** Tons Net **1.93**

on the **T. Mearns** Built at **Dartmouth** By whom built **Philip & Son Ltd** When built **1915-5**

Engines made at **Dartmouth** By whom made **Philip & Son Ltd** When made **1915**

Boilers made at **Glasgow** By whom made **Muir & Findlay** When made **1915**

Registered Horse Power **60** Owners **Renwick Wilson & Co** Port belonging to **Dartmouth**

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **David Colville & Leven & Co**

For record **S** Total Heating Surface of Boilers **774 Sq. Ft.** Is forced draft fitted ☒ No. and Description of Boilers **One Single Ended.** Working Pressure **150 lbs** Tested by hydraulic pressure to **300 lbs** Date of test **5-2-15**

of Certificate **13810** Can each boiler be worked separately **oul.** Area of fire grate in each boiler **26.5 Sq. Ft.** No. and Description of Valves to each boiler **1 Dble Spring** Area of each valve **3.14** Pressure to which they are adjusted **150 lbs**

they fitted with easing gear **Yes** In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ☒

Least distance between boilers or uptakes and bunkers or woodwork **4 1/2 ins** **Inside** dia. of boilers **9'-0"** Length **9'-0"**

Material of shell plates **Steel** Thickness **11/16** Range of tensile strength **28632** Are the shell plates welded or flanged **No**

Kind of riveting: cir. seams **D.R. Lap** long. seams **D.R. Batt Shape** Diameter of rivet holes in long. seams **15/16** Pitch of rivets **5 1/4**

of plates or width of butt straps **9 5/8** Per centages of strength of longitudinal joint rivets **85.3** plates **82.1** Working pressure of shell by rules **150 lbs**

Size of manhole in shell **12" x 16"** Size of compensating ring **6" x 11/16** No. and Description of Furnaces in each boiler **1 No Plain** Material **Steel** Outside diameter **2'-9"** Length of plain part **6'-0"** Thickness of plates: crown **21/32** bottom **3/32**

Description of longitudinal joint **Weld** No. of strengthening rings **40** Working pressure of furnace by the rules **180 lbs** Combustion chamber: Material **Steel** Thickness: Sides **19/32** Back **19/32** Top **19/32** Bottom **3/4** Pitch of stays to ditto: Sides **8 1/2** Back **9 x 8 1/2**

Guides: **1 1/2" pitch** stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **152 lbs** Material of stays **Steel** Diameter at smallest part **29/32**

Area supported by each stay **80.9 sq. in.** Working pressure by rules **150 lbs** End plates in steam space: Material **Steel** Thickness **29/32**

of stays **15"** How are stays secured **Nuts** Working pressure by rules **163 lbs** Material of stays **Steel** **Over** at smallest part **43.5 sq. in.**

supported by each stay **225 sq. in.** Working pressure by rules **198 lbs** Material of Front plates at bottom **Steel** Thickness **29/32** Material of back plate **Steel** Thickness **29/32** Greatest pitch of stays **11 1/2 x 7 3/4** Working pressure of plate by rules **298 lbs** Diameter of tubes **3 1/4**

of tubes **4 1/4** Material of tube plates **Steel** Thickness: Front **29/32** Back **5/8** Mean pitch of stays **8 1/2** Pitch across wide spaces **13 1/4** Working pressures by rules **161 lbs** Girders to Chamber tops: Material **Steel** Depth and thickness of at centre **7 x 1/2 x 2** Length as per rule **1'-10 1/4** Distance apart **7 1/2** Number and pitch of Stays in each **one at 8 1/2**

Working pressure by rules **151 lbs** Superheater or Steam chest: how connected to boiler ☒ Can the superheater be shut off and the boiler worked ☒

Material ☒ 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 ☒

End plates: Thickness ☒ How stayed ☒

Working pressure of end plates ☒ Area of safety valves to superheater ☒ Are they fitted with easing gear ☒

They request form **1600** attached

The foregoing is a correct description,
Muir & Findlay Manufacturer.

Is the approved plan of boiler forwarded herewith **Yes.**

During progress of work in shops: **1914 Aug 24-27 Sept 1-4 11-17 23 Oct 2-9 14-23 30**

During erection on board vessel: **1915 Mar 25 April 13-30 May 13**

Total No. of visits **25**

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 and material are of good quality.**

The boiler is to the order of Messrs Philip & Son, Dartmouth.

This boiler has been placed on board "Safety" Valves adjusted to 150 lbs pressure.

Survey Fee **£ 2 : 12 : -** When applied for, **191**

Shipping & Travelling Expenses (if any) **£ :** When received, **191**

MONTHLY ACCOUNT

Committee's Minute GLASGOW 23 FEB. 1915

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. FRI. DEC. 17, 1915

TRANSMIT TO LONDON

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