

REPORT ON BOILERS.

No. 34072

Received at London Office

WED. JUN. 3-1914

Date of writing Report 7. 4. 1914 When handed in at Local Office 191 Port of **GLASGOW**

No. in Survey held at **Panely** Date, First Survey **12. 1. 14** Last Survey **15. 4. 1914**

Reg. Book. on the **1/2 " Robina "** (Number of Visits **13.**) Gross **306** Tons Net **121**

Master Built at **Ardrossan** By whom built **Ardrossan S.S.C. Co. Ltd.** When built **1914**

Engines made at **Glasgow** By whom made **Johnnie Macfarlane & Co. Ltd.** When made **1914**

Boilers made at **Panely** By whom made **A. F. Braug. & Co. Ltd. (539)** When made **1914**

Registered Horse Power Owners **New Morecambe Pier Co.** Port belonging to **Ardrossan**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **Blythbridge Steel Co. Ltd. & W. Beardmore & Co. Ltd.**

for record **S** Total Heating Surface of Boilers **1924** Is forced draft fitted **Yes** No. and Description of **one single ended** Working Pressure **160** Tested by hydraulic pressure to **320** Date of test **15. 4. 14**

Certificate **12656** Can each boiler be worked separately Area of fire grate in each boiler **52.25** No. and Description of

valves to each boiler Area of each valve Pressure to which they are adjusted

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

distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers **13'-4 1/16"** Length **11'-0"**

of shell plates **S** Thickness **1 1/16"** Range of tensile strength **28/32** Are the shell plates welded or flanged

of riveting: cir. seams **DR** long. seams **TR & DBS** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **8"**

plates width of butt straps **1'-4 5/8"** Per centages of strength of longitudinal joint rivets **87** plate **85-9** Working pressure of shell by **175**

Size of manhole in shell **16 x 12"** Size of compensating ring **30" dia.** No. and Description of Furnaces in each **3 corrugated Material S** Outside diameter **3'-6 1/4"** Length of plain part **top 16 1/2"** Thickness of plates **bottom 16 1/2"**

of longitudinal joint **weld** No. of strengthening rings Working pressure of furnace by the rules **144** Combustion chamber

Material **S** Thickness: Sides **5/8"** Back **9/16"** Top **5/8"** Bottom **3/4"** Pitch of stays to ditto: Sides **10 x 8"** Back **4 1/2 x 8"**

4 8" If stays are fitted with nuts or riveted heads **Full** Working pressure by rules **180** Material of stays **S** Diameter at

st part **22. 1. 76** Area supported by each stay **80** Working pressure by rules **162** End plates in steam space: Material **S** Thickness **1 1/32"**

of stays **14 1/2 x 1 1/2"** How are stays secured **DN & W** Working pressure by rules **165** Material of stays **S** Diameter at smallest part **5. 79**

supported by each stay **242** Working pressure by rules **210** Material of Front plates at bottom **S** Thickness **4 1/16"** Material of

back plate **S** Thickness **4 1/16"** Greatest pitch of stays **13 1/2 x 8"** Working pressure of plate by rules **163** Diameter of tubes **2 1/2"**

of tubes **3 1/8 x 3 3/4"** Material of tube plates **S** Thickness: Front **4 1/16"** Back **4 1/16"** Mean pitch of stays **9 1/4"** Pitch across wide

spaces **13"** Working pressures by rules **167** Girders to Chamber tops: Material **S** Depth and thickness of

at centre **8 1/2 x 5/8 (2)** Length as per rule **2'-5"** Distance apart **8"** Number and pitch of Stays in each **2 at 9"**

ing pressure by rules **171** Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

ately 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

MC. 5 ftened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

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

urvey request form **The foregoing is a correct description,**

to 1462 attached **A. P. CRAIG & CO., Ltd.** Manufacturer.

es } During progress of 1914 **Jan 12. 15. 20. Feb 5. 11. 27.** Is the approved plan of boiler forwarded herewith **Yes**

ey } work in shops - - -

le } During erection on } **Mar 9. 18. 26. Apr 1. 6. 10. 15.** Total No. of visits **13.**

ing } board vessel - - -

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.**

Survey Fee **To be charged on** When applied for. **191**

Travelling Expenses (if any) **See accompanying Report** When received. **191**

Signature **W. J. Gordon** Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **GLASGOW 2 - JUN. 1914**

Signed **See accompanying mach^y report.**

Lloyd's Register Foundation