

REPORT ON BOILERS.

No. 34703

WED. DEC. 30. 1914

Received at London Office

Date of writing Report 8.12.1914 When handed in at Local Office 1914 Port of GLASGOW

No. in Survey held at Glasgow Date, First Survey 29/7/14 Last Survey 7/12/1914
 Reg. Book. S.S. FAIRMUIR (Number of Visits 18) Gross Tons }
 No. on the S.S. FAIRMUIR Net Tons }

Master Muchie Built at Ardrossan By whom built Ardrossan S.S. Co. (262) When built 1914
 Engines made at Glasgow By whom made Lidgerwood & Co. 447 When made 1914
 Boilers made at ditto By whom made Dunsmuir & Jackson L^o. 1336 When made 1914
 Registered Horse Power _____ Owners James Inglis & Co Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Edwille Lanarkshire & Furner

(Letter for record R) Total Heating Surface of Boilers 1814 # Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 7.12.14

No. of Certificate 2960 Can each boiler be worked separately ✓ Area of fire grate in each boiler 57 3/4 # No. and Description of safety valves to each boiler Pair spring loaded Area of each valve 6.11 # 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 2'-9" Mean dia. of boilers 14'-1 1/8" Length 10'-6"

Material of shell plates S Thickness 1 1/8" Range of tensile strength 29/32 Are the shell plates welded or flanged ✓

Descrip. of riveting: cir. seams DR long. seams TRIDBS Diameter of rivet holes in long. seams 3/16" Pitch of rivets 8 1/2"

Length of plates or width of butt straps 1-6" Per centages of strength of longitudinal joint rivets 86 1/2 # Working pressure of shell by rules 181 Size of manhole in shell 16 1/2" Size of compensating ring 6 3/4 x 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 3-4 9/16" Length of plain part 6-9 5/16" Thickness of plates 1 3/16" crown } bottom }
 Description of longitudinal joint mild No. of strengthening rings _____ Working pressure of furnace by the rules 183 Combustion chamber plates: Material S Thickness: Sides 4 3/64" Back 2 1/32" Top 4 3/64" Bottom 1" Pitch of stays to ditto: Sides 10 x 8 1/4" Back 9 1/2 x 8 5/8"

Top 7 3/4 x 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 181 Material of stays Iron Diameter at smallest part 9 1/8" Area supported by each stay 82" Working pressure by rules 183 End plates in steam space: Material S Thickness 1 3/16"

Pitch of stays 20 x 16" How are stays secured DN. Working pressure by rules 192 Material of stays S Diameter at smallest part 5-7 8"

Area supported by each stay 260" Working pressure by rules 187 Material of Front plates at bottom S Thickness 1 1/32" Material of Lower back plate S Thickness 2 9/32" Greatest pitch of stays 14 3/4 x 9 1/2" Working pressure of plate by rules 199 Diameter of tubes 3 1/2"

Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates S Thickness: Front 1 1/32" Back 2 9/32" Mean pitch of stays 11 3/8" Pitch across wide water spaces 14 1/2" Working pressures by rules 181 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9 x 7 1/8 (2) Length as per rule 2-6 1/2" Distance apart 9 1/2" Number and pitch of Stays in each 3 at 7 3/4"

Working pressure by rules 189 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

If 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 easing gear _____

Survey request form No. 1547 attached

The foregoing is a correct description, DUNSMUIR & JACKSON, Limited. Manufacturer.

James Fletcher Director, Yes

Dates of Survey: During progress of work in shops: 1914 July 29, Aug 3, Sept 3, 10, 16, 21, Oct 2, 7, 13, 19, 21, Nov 3, 9, 12, 17, 27, 30, Dec 7 Is the approved plan of boiler forwarded herewith? _____ Total No. of visits 18

while building: During erection on 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 & its workmanship & material are of good quality. This boiler will be fitted on board at Ardrossan. This boiler has been securely fitted aboard and its safety valves adjusted under steam.

Survey Fee ... Charged on Mailing Receipt } When applied for, _____ 191 _____
 Travelling Expenses (if any) ... } When received, _____ 191 _____

W. Gordon Muchie P. P. M. M.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 29 DEC. 1914

Assigned TRANSMIT TO LONDON

See G.L. Rpt. No. 34941

GLASGOW MAR. 1915

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