

REPORT ON BOILERS.

No. 37495

Received at London Office WED. 27 FEB. 1918

of writing Report 191 When handed in at Local Office 191 Port of *Glasgow*
 Date, First Survey 26. 7. 17. Last Survey 13. 2. 1918.
 No. in Survey held at *Glasgow*
 Book. *Boiler No 710 for S.S. Falarce*
 Built at *Alloa* By whom built *A. & M. Dalrymple (No 23)* When made
 Lines made at *Alloa* By whom made *A. & M. Dalrymple (No 710)* When made 1918
 Owners *Glasgow* Port belonging to
 Registered Horse Power

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Steel 6. & Scotland Ltd*
 Matter for record *S* Total Heating Surface of Boilers 1370 *Is forced draft fitted* No. and Description of
 Boilers *one Single ended* Working Pressure 135 *Tested by hydraulic pressure to 270 lb* Date of test 13. 2. 18
 of Certificate 14102 Can each boiler be worked separately Area of fire grate in each boiler 4714 No. and Description of
 Safety valves to each boiler Area of each valve 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 Inside Mean dia. of boilers 12-6 Length 10-0
 Material of shell plates *Steel* Thickness $\frac{13}{16}$ Range of tensile strength $29\frac{1}{2}$ to 32 Are the shell plates welded or flanged *No*
 Description of riveting: cir. seams *10 Lap* long. seams *T.R.D.B.S.* Diameter of rivet holes in long. seams $\frac{7}{8}$ Pitch of rivets $6\frac{1}{4}$
 Spacing of plates or width of butt straps $12\frac{3}{4}$ Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by
 Rules 138 Size of manhole in shell 16×12 Size of compensating ring $2-0 \times 2-4 \times 1$ No. and Description of Furnaces in each
 Boiler 3 Plain Material *Steel* Outside diameter 39 Length of plain part top $82\frac{3}{4}$ Thickness of plates crown 21 bottom $87\frac{3}{8}$ bottom 32
 Description of longitudinal joint *weld* No. of strengthening rings Working pressure of furnace by the rules 138 Combustion chamber
 Plates: Material *Steel* Thickness: Sides $\frac{9}{16}$ Back $\frac{9}{16}$ Top $\frac{9}{16}$ Bottom $\frac{15}{16}$ Pitch of stays to ditto: Sides $8\frac{1}{2} \times 8$ Back $8 \times 7\frac{1}{2}$
 Top $8\frac{1}{2} \times 8$ If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules 160 Material of stays *Steel* Diameter at
 Smallest part $1-24$ Area supported by each stay $6\frac{1}{4}$ Working pressure by rules 146 End plates in steam space: Material *Steel* Thickness $\frac{29}{32}$
 Pitch of stays 17×16 How are stays secured *Nuts* Working pressure by rules 136 Material of stays *Steel* Diameter at smallest part $3-85$
 Area supported by each stay $272\frac{1}{4}$ Working pressure by rules 146 Material of Front plates at bottom *Steel* Thickness $\frac{3}{4}$ Material of
 Lower back plate *Steel* Thickness $\frac{3}{4}$ Greatest pitch of stays 14 Working pressure of plate by rules 174 Diameter of tubes $3\frac{1}{4}$
 Pitch of tubes $4\frac{1}{2} \times 4\frac{3}{8}$ Material of tube plates *Steel* Thickness: Front $\frac{3}{4}$ Back $\frac{21}{32}$ Mean pitch of stays 10 Pitch across wide
 Water spaces 14 Working pressures by rules 211 Girders to Chamber tops: Material *Steel* Depth and thickness of
 Girder at centre $7\frac{1}{2} \times (\frac{9}{16} \times 22)$ Length as per rule 28.77 Distance apart 8 Number and pitch of Stays in each *Two 8\frac{1}{2}*
 Working pressure by rules 138 Superheater or Steam chest; how connected to boiler *None* 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
 Boles 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. 2048 attached

The foregoing is a correct description,

A. & M. Dalrymple Manufacturer.

Dates of Survey During progress of 1914 July 21 Aug 29-22-29 Sept 3-4-18-21 Oct 1-14-26-31 Is the approved plan of boiler forwarded herewith *Yes*
 while building During erection on 7. 11. 23. 24. 11. 26. 29. 1918 Jun 8. 10. 16. 22. 29. 30. 5. 8. 11. Total No. of visits 28

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *This boiler has been built under Special Survey, the material and workmanship are good. The boiler will be sent to Alloa where it will be fitted to the vessel.*

Survey Fee £ 4 : 11 :
 Travelling Expenses (if any) £ :

When applied for, 191
 When received, 191

MONTHLY ACCOUNT.

Jas Bastin
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 26 FEB. 1918

Assigned

TRANSMIT TO LONDON

FRI. 26 APR. 1918

Lloyd's Register Foundation

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