

REPORT ON BOILERS.

No. 38501

Received at London Office

Date of writing Report 1919 When handed in at Local Office 1919 Port of Glasgow TUE FEB 4 1919
 No. in Survey held at Renfrew Date, First Survey 31/3/18 Last Survey 3/9/1919
 Reg. Book. on the Boiler No 567B. S.S. "Independance" (Number of Visits 16) Gross Tons Net
 Master Built at Ardrossan By whom built Ardrossan Dry Dock Co Ltd (302) When built 1919
 Engines made at Clydebank By whom made Aitchison Blair Ltd (119) When made 1918
 Boilers made at Renfrew By whom made Wm Simons & Co Ltd (567B) When made 1915
 Registered Horse Power Owners *Hepburn Societe D'Armanant, Michel Smith & Co (London)* Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland.

(Letter for record 5) Total Heating Surface of Boiler 1486 sq ft Is forced draft fitted No. and Description of Boilers One single ended Working Pressure 130 lbs Tested by hydraulic pressure to 260 lbs Date of test 3.9.15
 No. of Certificate 13233 Can each boiler be worked separately — Area of fire grate in each boiler 59.25 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 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 Mean dia. of boilers 13'-3" Length 10'-3"
 Material of shell plates steel Thickness 7/16 Range of tensile strength 28/32 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams DR-Lap long. seams IBS-TR Diameter of rivet holes in long. seams 15/16 Pitch of rivets 6 1/2
 Lap of plates or width of butt straps 14 Per centages of strength of longitudinal joint rivets 94-1 plate 85-6 Working pressure of shell by rules 130 Size of manhole in shell 19" x 15" Size of compensating ring 28 1/2 x 24 1/2 x 1" No. and Description of Furnaces in each boiler 3 Beighton Material steel Outside diameter 44 3/8 Length of plain part top — bottom — Thickness of plates crown 7/16 bottom 7/16
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 142 Combustion chamber plates: Material steel Thickness: Sides 14/32 Back 1/2 Top 14/32 Bottom 3/4 Pitch of stays to ditto: Sides 8 x 8 Back 8 5/8 x 6 3/4
 Top 8 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 135 Material of stays steel Area Diameter at smallest part 96 Area supported by each stay 57 Working pressure by rules 135 End plates in steam space: Material steel Thickness 29/32
 Pitch of stays 16 1/2 x 18 How are stays secured IN TW Working pressure by rules 133 Material of stays steel Area Diameter at smallest part 4.11
 Area supported by each stay 292 Working pressure by rules 146 Material of Front plates at bottom steel Thickness 7/16 Material of Lower back plate steel Thickness 7/16 Greatest pitch of stays 14 7/16 Working pressure of plate by rules 133 Diameter of tubes 3 1/2
 Pitch of tubes 4 3/8 x 4 3/8 Material of tube plates steel Thickness: Front 7/16 Back 7/16 Mean pitch of stays 11 Pitch across wide water spaces 14 1/2 doubled 7/16 Working pressures by rules 186 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 2 plates 6 1/2 x 1 1/2 Length as per rule 29 Distance apart 8 Number and pitch of Stays in each 2 of 8
 Working pressure by rules 130 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 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 —

FOR WM. SIMONS & CO., LTD.

The foregoing is a correct description,

J. H. Armanant

SECRETARY

Manufacturer.

Dates of Survey During progress of work in shops 1915 Mar 31 Apr 6-9-14-27 May 6-19-31 June 4-14 Is the approved plan of boiler forwarded herewith *yes*
 while building During erection on board vessel 18-24 July 26 Aug 16-19 Sept 3. Total No. of visits 16

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

This boiler has been constructed under special survey in accordance with the rules and approved plan, and is now to be fitted in the Ardrossan Dry Dock Co's No 302. Standard vessel. Materials & workmanship are good. This boiler has now been fitted on board the Ardrossan D. D. Co's No 302 and tested under steam satisfactorily.

Survey Fee ... £ Su Armanant When applied for, 1919
 Travelling Expenses (if any) £ report: When received, 1919

Harry Clarke

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

Committee's Minute

TUE 4-FEB. 1919

Assigned



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