

## REPORT ON BOILERS.

No. 41359.

Received at London Office

WFO. 14 SEP. 1921

Date of writing Report 16<sup>th</sup> Sep 21 When handed in at Local Office 10<sup>th</sup> Sep 1921 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 12.5.1920 Last Survey 8.9.1921  
 Reg. Book. Manure Boilers No 1700/1 Is Kyanite (Number of Visits 17) Gross Tons 643  
 on the Glasgow By whom built Yarrow & Co. 1461 When built 1922  
 Master Glasgow By whom made Yarrow & Co. 1461 When made 1922  
 Engines made at Glasgow By whom made South Shipton Eng Coy When made 1921  
 Boilers made at Glasgow Owners William Robertson Port belonging to Glasgow  
 Registered Horse Power

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Glasgow & Co. W. & A. Duguid & Co. Ltd. of Scotland  
 (Letter for record 5) Total Heating Surface of Boilers 2140 sq ft Is forced draft fitted No No. and Description of Boilers No Single Ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 8/9/21  
 No. of Certificate 15893 Can each boiler be worked separately Yes Area of fire grate in each boiler 337 sq ft No. and Description of safety valves to each boiler Double Spring loaded Area of each valve 3.946 sq in Pressure to which they are adjusted 185 lb/sq in  
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 4'-0" Mean dia. of boilers 11'-0" Length 10'-0"  
 Material of shell plates Steel Thickness 2 1/2 Range of tensile strength 25/32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Lap & R long. seams Stitch Riv Diameter of rivet holes in long. seams 1" Pitch of rivets 7 7/8  
 width of butt straps 15" Per centages of strength of longitudinal joint 86.6 Working pressure of shell by rules 189 Size of manhole in shell 16" x 12" Size of compensating ring 2'-7" x 2'-3" x 2 1/2 No. and Description of Furnaces in each boiler No Corrugated Material Steel Outside diameter 40 in Length of plain part 10 1/2 Thickness of plates 3 1/2  
 Description of longitudinal joint held No. of strengthening rings 1 Working pressure of furnace by the rules 189 Combustion chamber plates: Material Steel Thickness: Sides 1 1/2 Back 1 1/2 Top 1 1/2 Bottom 1 1/2 Pitch of stays to ditto: Sides 8" x 8" Back 9" x 8"  
 Top 6" x 8" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 185 Material of stays Steel Area at smallest part 175 sq in Area supported by each stay 78 sq in Working pressure by rules 190 End plates in steam space: Material Steel Thickness 1 1/2  
 Pitch of stays 15" x 1 1/2 How are stays secured Stitch Working pressure by rules 190 Material of stays Steel Area at smallest part 3.85 sq in  
 Area supported by each stay 215 sq in Working pressure by rules 185 Material of Front plates at bottom Steel Thickness 1 1/2 Material of Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays 1 1/2 x 8" Working pressure of plate by rules 260 Diameter of tubes 3 1/2  
 Pitch of tubes 1 1/2 x 1 1/2 Material of tube plates Steel Thickness: Front 1 1/2 Back 1 1/2 Mean pitch of stays 11 1/2 Pitch across wide water spaces 1 1/2 Working pressures by rules 216 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/2 x 3 1/2 x 2 Length as per rule 28 in Distance apart 8" Number and pitch of Stays in each 6 at 8"  
 Working pressure by rules 200 Steam dome: description of joint to shell none % of strength of joint  
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes  
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed  
 UPPERHEATER. Type none Date of Approval of Plan  
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler  
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

Survey request form

The foregoing is a correct description,  
 FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD.  
 (LINDSAY BURNET'S BOILER WORKS) Michael Couper Manufacturer.

No. 2547 attached

Dates of Survey } During progress of } 1920 May 12-25 Jun 9 Aug 25 (1921) Mar 24 May 5-11-24 Jun 1-7-21 Is the approved plan of boiler forwarded herewith Yes  
 while } work in shops - - }  
 building } During erection on }  
 board vessel - - }  
 Total No. of visits 17

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

These boilers have been built under special survey.  
 The workmanship and materials are of good quality.  
 The boilers will be fitted on board at Glasgow.

3/12/21. These boilers have been well fitted and secured on board and their safety valves adjusted under steam as above. S.F. Dorey.

Survey Fee ... £ 14 : 6 : When applied for, 13.9.21  
 Travelling Expenses (if any) £ : : When received, 10.11.21

Robert H. Gregor  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

GLASGOW 13 SEP 1921  
 TRANSMIT TO LONDON

GLASGOW 10 JAN 1922  
 See Lib. Rpt. 41594

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