

# REPORT ON BOILERS.

No. 39181

Received at London Office

REC'D - DEC. 1919

Date of writing Report 191 When handed in at Local Office 26/12/18 9. Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 26/12/18 Last Survey 7/1/19 1919.  
 Reg. Book. on the Boilers No B114 - 5/8 DROMORE CASTLE (Number of Visits 22.) Gross 5242.25.  
 Master G. J. Whitfield. Built at Greenock By whom built Harland & Wolff Ltd. When built 1919  
 Engines made at Greenock By whom made John S. Kincaid & Co. When made 1919  
 Boilers made at Glasgow By whom made Dunsmuir & Jackson. B. 114. When made 1919  
 Registered Horse Power Owners Union Castle N. S. Co. Ltd. Port belonging to London.

## MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel D. Colville & Son

Letter for record 5 Total Heating Surface of Boilers 7668 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Multitubular Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 7/7/19  
 No. of Certificates 1-14820 Can each boiler be worked separately Yes Area of fire grate in each boiler 63.3 sq ft No. and Description of Safety valves to each boiler 1 No Chasing Area of each valve 9.62 sq in Pressure to which they are adjusted 185 lb  
 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 25" Mean dia. of boilers 15'-6" Length 11'-6"  
 Material of shell plates S Thickness 1 1/4" Range of tensile strength 28/32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams L.D.R long. seams All Straps. T.R. Diameter of rivet holes in long. seams 15/16" Pitch of rivets 9 1/8"  
 Lap of plates or width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3 Working pressure of shell by rules 182 Size of manhole in 16" x 12" Size of compensating ring Flanged plate No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 50 3/16" Length of plain part top 19 1/2" Thickness of plates crown 19 1/2" bottom 19 1/2"  
 Description of longitudinal joint Welded No. of strengthening rings None Working pressure of furnace by the rules 182 Combustion chamber plates: Material S Thickness: Sides 23/32" Back 11/16" Top 23/32" Bottom 23/32" Pitch of stays to ditto: Sides 10 7/8" x 9 1/4" Back 10 1/4" x 8 3/4"  
 Top 10 7/8" x 9 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 Material of stays S Area Diameter at smallest part 2 3/4" Area supported by each stay 98.2 Working pressure by rules 219 End plates in steam space: Material S Thickness 1 1/32"  
 Pitch of stays 2 3/4" x 20 1/2" How are stays secured S. nuts Working pressure by rules 180 Material of stays S Area Diameter at smallest part 8.27"  
 Area supported by each stay 473 Working pressure by rules 182 Material of Front plates at bottom S Thickness 3/32" Material of Lower back plate S Thickness 27/32" Greatest pitch of stays 13 5/8" x 8 3/4" Working pressure of plate by rules 203 Diameter of tubes 2 3/4"  
 Pitch of tubes 4" x 3 7/8" Material of tube plates S Thickness: Front 3/32" Back 3/4" Mean pitch of stays 9 7/8" Pitch across wide water spaces 13 5/8" Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10" x 13 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of Stays in each 3 @ 9 1/4"  
 Working pressure by rules 187 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 2169 attached  
 The foregoing is a correct description,  
 James Fletcher Director Manufacturer.

Dates of Survey During progress of work in shops 1918 Dec 26. 1919 Jan 23. Feb 10. 18. 24. Mar 5. 10. Is the approved plan of boiler forwarded herewith No Sent with Report on Boilers B. 113.  
 while building During erection on board vessel 1919 Apr 2. 27. May 6. 13. 26. 28. 30. June 5. 9. 12. 17. Total No. of visits 22.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under special survey and in accordance with the Rules. The materials & workmanship are sound and good. on completion they were tested by water pressure to 360 lbs and found tight and satisfactory.  
 These boilers have now been efficiently fitted on board the  
 Alva Tanned Steamer J. James Greenock.

Shipping. Survey Fee £ 11 : 9 : - When applied for, 2.12. 1919  
 Travelling Expenses (if any) £ : : - When received, 4.12. 1919

Committee's Minute GLASGOW 1 - OCT 1919  
 Assigned Transmit to Greenock.  
 J. Seller & Peter W. Hegor  
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.



0900 - 0060