

REPORT ON BOILERS.

No. 38834.

Received at London Office WED. 18 JUN. 1919

Date of writing Report 1919 When handed in at Local Office 16. 6. 1919 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 29/5/18. Last Survey 24/3/1919
 Reg. Book. on the Boilers No B112 for S.S. "Ardgarnock" ex "War Tunnel" (Number of Visits 16) Gross Tons }
 Net Tons }
 Master Built at Ardrossan By whom built Ardrossan D.D. B.B. L^{td} (303) When built 1919
 Engines made at Clydebank By whom made Aitchison Blair L^{td} (No. 120) When made 1919
 Boilers made at Glasgow By whom made Dunsmuir & Jackson. B-112 When made 1919.
 Registered Horse Power Owners Messrs Lang & Fulton Port belonging to Greenock.

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

Letter for record S Total Heating Surface of Boilers 1998 sq ft Is forced draft fitted No No. and Description of Boilers One single ended multitubular Working Pressure 180 Tested by hydraulic pressure to 360 lbs Date of test 24-3-19
 No. of Certificate 14662 Can each boiler be worked separately Yes Area of fire grate in each boiler 60 3/4 sq ft No. and Description of Safety valves to each boiler 2 Spring Loaded Area of each valve 5.939 sq in Pressure to which they are adjusted 185 lbs per 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 No.
 Smallest distance between boilers or uptakes and bunkers or woodwork 3.6 in INT dia. of boilers 14.6 in Length 10.6 in
 Material of shell plates S Thickness 1 3/16 in 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 1 1/4 in Pitch of rivets 8 7/8 in
 Spacing of plates or width of butt straps 18 3/4 in Per centages of strength of longitudinal joint rivets 86.6 plate 85.9 Working pressure of shell by rules 183 lbs Size of manhole in shell 16 x 12 Size of compensating ring Flanged - 13/16 No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 46 in Length of plain part top bottom Thickness of plates crown bottom 3 9/16 in
 Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 191 Combustion chamber plates: Material S Thickness: Sides 23/32 in Back 11/16 in Top 23/32 in Bottom 23/32 in Pitch of stays to ditto: Sides 10 x 9 1/2 in Back 9 7/8 x 9 in
 Spacing of stays 10 x 9 1/2 in If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 lbs Material of stays S Area Diameter at smallest part 1.98 Area supported by each stay 95 Working pressure by rules 187 End plates in steam space: Material S Thickness 1 3/16 in
 Pitch of stays 19 3/4 x 17 1/4 in How are stays secured S nuts Working pressure by rules 190 Material of stays S Area Diameter at smallest part 6.33
 Area supported by each stay 240.6 Working pressure by rules 193 Material of Front plates at bottom S Thickness 1 1/4 in Material of lower back plate S Thickness 29/32 in Greatest pitch of stays 14 1/2 x 9 7/8 in Working pressure of plate by rules 187 Diameter of tubes 3 1/4 in
 Pitch of tubes 4 1/2 x 4 1/2 in Material of tube plates S Thickness: Front 1 1/4 in Back 13/16 in Mean pitch of stays 11 1/4 in Pitch across wide inter spaces 14 1/4 in Working pressures by rules 182 lbs Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 in x 1 1/2 in Length as per rule 29 1/4 in Distance apart 9 1/2 in Number and pitch of Stays in each 2 @ 10 in
 Working pressure by rules 181 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 rivets
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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 2162 attached
 DUNSMUIR & JACKSON, Limited.
 The foregoing is a correct description,
 James Dunsmuir Director, Manufacturer.

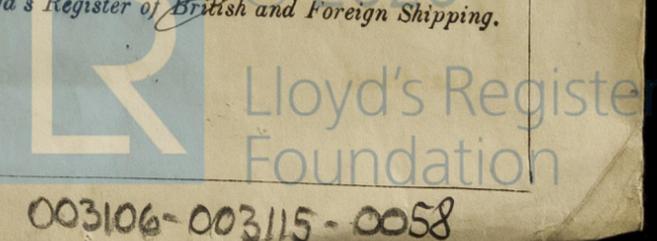
During progress of work in shops 1918 May 29. Nov 27. Dec 26. 1919 Jan 8. 13. 17. Is the approved plan of boiler forwarded herewith Yes.
 During erection on board vessel 21. 25. Feb 5. 10. 18. 24. Mar 5. 10. 17. 24. Total No. of visits 16

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey & in accordance with the Rules. The materials & workmanship are sound & good, on completion it was tested by water pressure to 360 lbs and found tight & satisfactory. This boiler has now been fitted on board, tested under steam and found satisfactory.

Survey Fee ... £ 6 : 13 : When applied for, 11. 6. 1919
 Travelling Expenses (if any) £ - : - : When received, 13. 6. 1919.

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
 J. M. M. 2020

Committee's Minute GLASGOW 17 JUN. 1919
 Signed See accompanying machinery report



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Foundation