

# REPORT ON BOILERS.

No. 28004

Received at London Office WFN 18 AUG 1909

Date of writing Report 2 Aug 1909 When handed in at Local Office 14-8-1909 Port of Glasgow  
 No. in Survey held at Glasgow Date, First Survey 21<sup>st</sup> October 1908 Last Survey 14<sup>th</sup> August 1909  
 Reg. Book. S/S "Glenishiel" Iron (Number of Visits 64) Tons } Gross 4798.13  
 on the S/S "Glenishiel" Iron } Net 3054.21  
 Master A. Ellis Built at Glasgow By whom built B. Coumell & Co. L<sup>td</sup> When built 1909  
 Engines made at Glasgow By whom made Dunsmuir & Jackson L<sup>td</sup> when made 1909  
 Boilers made at ditto By whom made ditto when made 1909  
 Registered Horse Power - Owners Jas. Gardner & Co. Port belonging to Glasgow

**MULTITUBULAR BOILERS** ~~XXXXXXXXXXXXXXXXXXXX~~ **DONKEY.**—Manufacturers of Steel B. Coumell  
 (Letter for record ) Total Heating Surface of Boilers 941 Is forced draft fitted No No. and Description of Boilers one Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 14-6-09  
 No. of Certificate 9968 Can each boiler be worked separately  Area of fire grate in each boiler 32 No. and Description of safety valves to each boiler Double Spring Area of each valve 7.06 Pressure to which they are adjusted 105  
 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 8" Mean dia. of boilers 11-0 1/16" Length 9-6"  
 Material of shell plates S Thickness 1 1/16" Range of tensile strength 28/32 Are the shell plates welded or flanged   
 Descrip. of riveting: cir. seams DR long. seams TR Lap Diameter of rivet holes in long. seams 1 7/8" Pitch of rivets 4 1/32"  
 Lap 4 1/4" Per centages of strength of longitudinal joint rivets 81.2% Working pressure of shell by rules 105 plate 73.5%  
 No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 3-5 7/16" Length of plain part top 6-3 Thickness of plates crown 19/32 bottom 6-7/8 bottom 19/32  
 Description of longitudinal joint weld No. of strengthening rings  Working pressure of furnace by the rules 110 Combustion chamber plates: Material S Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 23/32" Pitch of stays to ditto: Sides 43/4 x 9 1/4" Back 7 1/8 x 8 7/8" Top 43/4 x 8" If stays are fitted with nuts or riveted heads No Working pressure by rules 107 Material of stays S Diameter at smallest part 1-47 Area supported by each stay 64 Working pressure by rules 123 End plates in steam space: Material S Thickness 3/4" Pitch of stays 5 1/2 x 15" How are stays secured DR Working pressure by rules 108 Material of stays S Diameter at smallest part 3 1/4" Area supported by each stay 233 Working pressure by rules 131 Material of Front plates at bottom S Thickness 1 1/16" Material of Lower back plate S Thickness 1 1/16" Greatest pitch of stays 16" Working pressure of plate by rules 117 Diameter of tubes 3" Pitch of tubes 4 1/2 x 4 1/4" Material of tube plates S Thickness: Front 25/32" Back 5/8" Mean pitch of stays 1 1/4" Pitch across wide water spaces 14" Working pressures by rules 120 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 x 3 1/4 (2) Length as per rule 2-3 1/16" Distance apart 8" Number and pitch of Stays in each 2 at 7 3/4"  
 Working pressure by rules 116 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

The foregoing is a correct description,  
 by **DUNSMUIR & JACKSON, Limited** Manufacturer.  
 Is the approved plan of boiler forwarded herewith Yes and with repl. No 27776  
 Total No. of visits 64

See accompanying report.

Dates of Survey } During progress of work in shops - - - }  
 while building } During erection on board vessel - - - }

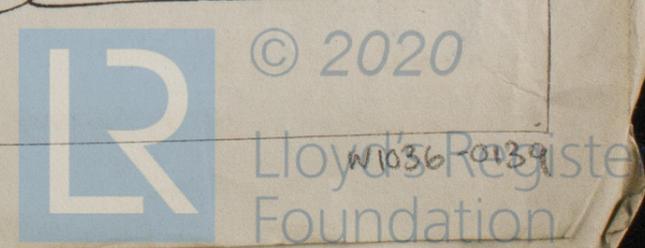
**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan & the workmanship & material are of good quality

Survey Fee ... £  : When applied for, 19...  
 Travelling Expenses (if any) £  : When received, 19...

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

Committee's Minute GLASGOW 17 AUG. 1909

Assigned See Minute on machinery rpt. res.



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Is a report also sent on the hull of the ship?

[Em. 11.7 - Copyable Ink]