

# REPORT ON BOILERS.

No. 6474

Date of writing Report 19 When handed in at Local Office 19 Port of Belfast 1908 2 JUN 1908  
 No. in Reg. Book. Survey held at Belfast Date, First Survey see other sheet  
 on the J.S. Pericles (Number of Visits) Gross 10925 Tons Net 6898  
 Master Belfast Built at Belfast By whom built Harland & Wolff L<sup>d</sup> When built 1908  
 Engines made at Belfast By whom made Harland & Wolff L<sup>d</sup> when made -  
 Boilers made at Belfast By whom made Harland & Wolff L<sup>d</sup> when made -  
 Registered Horse Power 1075 Owners Geo. Thompson & Coy L<sup>d</sup> Port belonging to Alderton

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.** Manufacturers of Steel R. Colville & Sons L<sup>d</sup>  
 (Letter for record S) Total Heating Surface of Boilers 5098 sq ft Is forced draft fitted No No. and Description of Boilers Two - Single End Cylindrical  
 Working Pressure 215 lbs Tested by hydraulic pressure to 450 lbs Date of test 20-12-07  
 No. of Certificate 488 Can each boiler be worked separately Yes Area of fire grate in each boiler 62 sq ft No. and Description of safety valves to each boiler Two - Direct Spring  
 Area of each valve 8.29 sq in Pressure to which they are adjusted 215 lbs  
 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 about 18" Mean dia. of boilers 15.6" Length 10'-9"  
 Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 29-32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams Lap Rivet long. seams Butt Rivet Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 10"  
 width of butt straps 2 3/4" Per centages of strength of longitudinal joint rivets 90.6 Working pressure of shell by rules 200 lbs Size of manhole in shell 16" x 12" Size of compensating ring McNeil's  
 No. and Description of Furnaces in each boiler 3 Morrison's Material Steel Outside diameter 49 1/2" Length of plain part 6" Thickness of plates crown 7 23/32" bottom 3 3/32"  
 Description of longitudinal joint Weld No. of strengthening rings 1 Working pressure of furnace by the rules 242 lbs combustion chamber plates: Material Steel Thickness: Sides 5" Back 3 1/2" Top 5" Bottom 1 1/2" Pitch of stays to ditto: Sides 7 1/2" x 7 1/2" Back 8 1/2" x 7 1/2"  
 Top 8 1/2" x 7 1/2" if stays are fitted with nuts or riveted head Not in use Working pressure by rules 217 lbs Material of stays Steel Diameter at smallest part 3" Area supported by 1 stay working pressure by rules 224 lbs plates in steam space: Material Steel Thickness 1 1/8"  
 Pitch of stays 8" x 8" How are stays secured By nuts & washers Working pressure by rule 215 lbs Material of stay Steel Diameter at smallest part 3"  
 Area supported by 18 x 15 1/2" stay 279 sq in Working pressure by rules 263 lbs Material of Front plates at bottom Steel Thickness 4 1/2" Material of Lower back plate Steel Thickness 4 1/2" Greatest pitch of stays 1/25" Working pressure of plate by rules 301 lbs Diameter of tubes 3"  
 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plate Steel Thickness: Front 7" Back 13 1/2" x 3/32" Mean pitch of stay 8 1/2" x 8 1/2" Pitch across wide water spaces 1 1/4" Working pressures by rules 326 lbs with 7/8" diameter Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 9" (5" x 2) Length as per rule 29" Distance apart 8 1/2" Number and pitch of Stays in each 3-7 1/4"  
 Working pressure by rules - 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,  
Harland & Wolff Manufacturer.

Dates of Survey while building } During progress of work in shops - - } see other sheet Is the approved plan of boiler forwarded herewith -  
 } During erection on board vessel - - - } Total No. of visits -

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.)  
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Survey Fee ... .. £ : : } When applied for, ..... 19  
 Travelling Expenses (if any) £ : : } When received, ..... 19  
R. J. Pennington  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 5 JUN 1908  
 Assigned see minute on attached report

