

## REPORT ON BOILERS.

No. 25291

TUES. 21 MAY 1907

Date of writing Report *17th May 1907* When handed in at Local Office *17th May 1907* Port of *Glasgow*  
 No. in Survey held at *Dalmuir* Date First Survey *10th May 06* Last Survey *6th May 1907*  
 Reg. Book. *I S S Duilpue* (Number of Visits) *1* Gross Tons *550* Net Tons *550*  
 Master *Dalmuir* Built at *Dalmuir* By whom built *H<sup>m</sup> Beardmore & Co. Ltd* When built *1907*  
 Engines made at *Dalmuir* By whom made *H<sup>m</sup> Beardmore & Co. Ltd* when made *1907*  
 Boilers made at *do* By whom made *do* when made *1907*  
 Registered Horse Power *550* Owners *Pacific Steam Nav. Co.* Port belonging to *Liverpool*

MULTITUBULAR BOILERS ~~MANUFACTURED BY~~ DONKEY. — Manufacturers of Steel *H<sup>m</sup> Beardmore & Co. Ltd*  
 (Letter for record *S*) Total Heating Surface of Boilers *864 sq ft* Is forced draft fitted *No* No. and Description of Boilers *One Single Ended* Working Pressure *120 lb* Tested by hydraulic pressure to *240 lb* Date of test *4/10/06*  
 No. of Certificate *1289* Can each boiler be worked separately *✓* Area of fire grate in each boiler *30 sq ft* No. and Description of safety valves to each boiler *Two, direct spring* Area of each valve *4.9 sq in* Pressure to which they are adjusted *125 lb*  
 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'-0"* Mean dia. of boilers *10'-6"* Length *9'-0"*  
 Material of shell plates *Steel* Thickness *29/32"* Range of tensile strength *29/32 tons* Are the shell plates welded or flanged *No*  
 Descrip. of riveting: cir. seams *DR Lap* long. seams *Double Strap* Diameter of rivet holes in long. seams *15/16"* Pitch of rivets *5 5/16"*  
 Lap of plates or width of butt straps *15 3/4"* Per centages of strength of longitudinal joint rivets *88.3* Working pressure of shell by rules *125 lb* Size of manhole in shell *16" x 12"* Size of compensating ring *M<sup>c</sup>Neill* No. and Description of Furnaces in each boiler *Two, plain* Material *Steel* Outside diameter *37 1/8"* Length of plain part *66"* Thickness of plates crown *1 7/32"* bottom *9/16"*  
 Description of longitudinal joint *Welded* No. of strengthening rings *None* Working pressure of furnace by the rules *124* Combustion chamber plates: Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *13/16"* Pitch of stays to ditto: Sides *9 x 8"* Back *9 x 8"*  
 Top *9 x 7 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *122* Material of stays *Steel* Diameter at smallest part *1 1/4"* Area supported by each stay *22 sq in* Working pressure by rules *126* End plates in steam space: Material *Steel* Thickness *15/16"*  
 Pitch of stays *15 x 15* How are stays secured *By Nuts* Working pressure by rules *151* Material of stays *Steel* Diameter at smallest part *3/8"*  
 Area supported by each stay *22 sq in* Working pressure by rules *166* Material of Front plates at bottom *Steel* Thickness *3/4"* Material of Lower back plate *Steel* Thickness *1/16"* Greatest pitch of stays *14 1/4"* Working pressure of plate by rules *122* Diameter of tubes *3 1/4"*  
 Pitch of tubes *4 1/2"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *3/4"* Mean pitch of stays *11 1/8"* Pitch across wide water spaces *14 1/4"* Working pressures by rules *166 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *6" x 4 1/4"* Length as per rule *24 1/16"* Distance apart *7 1/2"* Number and pitch of Stays in each *Two, 9"*  
 Working pressure by rules *157 lb* Superheater or Steam chest: how connected to boiler *None* Can the superheater be shut off and the boiler worked separately *Yes*  
 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,  
 For WILLIAM BEARDMORE & CO., LIMITED. Manufacturer.

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

Is the approved plan of boiler forwarded herewith *Yes*  
 Total No. of visits *1*

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

*As per attached report on machinery.*

Survey Fee ... £ : : When applied for, *20 MAY 1907* 19  
 Travelling Expenses (if any) £ : : When received, 19

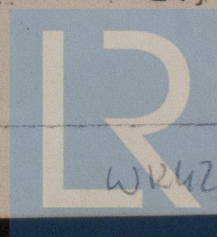
Committee's Minute

Assigned

*See accompanying report*

*George Murdoch*  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

*Glasgow 20 MAY 1907*



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