

REPORT ON BOILERS.

No. 27199.

Received at London Office

WED. 18 NOV 1908

Date of writing Report *4th Nov. 1908* When handed in at Local Office *6/11/1908* Port of *Glasgow*
 No. in Survey held at *Glasgow* Date, First Survey *5th Sept. 1907* Last Survey *5th Nov. 1908*
 Reg. Book. on the *T. S. S. "Morea"* (Number of Visits *94*) Gross Tons }
 Net Tons }
 Master Built at *Glasgow* By whom built *Barclay Curle & Co Ltd* When built *1908*
 Engines made at *Glasgow* By whom made *Barclay Curle & Co Ltd (18471)* when made *1908*
 Boilers made at *Do* By whom made *Do (18471)* when made *1908*
 Registered Horse Power Owners *J. O. Ste. Nav. Co* Port belonging to *Glasgow*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Beardmore & Colville*

(Letter for record *S. V*) Total Heating Surface of Boilers Is forced draft fitted *Yes* No. and Description of Boilers *4 Single ended* Working Pressure *215 lb* Tested by hydraulic pressure to *430 lb* Date of test *24.4.08*
 No. of Certificate *9501* Can each boiler be worked separately *Yes* Area of fire grate in each boiler *58.4 sq ft* No. and Description of safety valves to each boiler *double spring loaded* Area of each valve *8.29 sq in* Pressure to which they are adjusted *220 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 *21"* Mean dia. of boilers *14.8"* Length *11.6 1/4"*
 Material of shell plates *Steel* Thickness *1 1/2"* Range of tensile strength *30/33 5/8* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *D. & T. R.* long. seams *T. R. & D. B. S* Diameter of rivet holes in long. seams *1 1/16"* Pitch of rivets *10 1/16"*
 Lap of plates or width of butt straps *22 3/4"* Per centages of strength of longitudinal joint rivets *93.6* Working pressure of shell by rules *249 lb* plate *84.5*
 Size of manhole in shell *16" x 12"* Size of compensating ring *2.6 x 3.5"* No. and Description of Furnaces in each boiler *3 Morrison* Material *Steel* Outside diameter *3.94"* Length of plain part top *✓* Thickness of plates crown *1 1/2"* bottom *✓* bottom *1 3/4"*
 Description of longitudinal joint *weld* No. of strengthening rings *✓* Working pressure of furnace by the rules *234* Combustion chamber plates: Material *Steel* Thickness: Sides *5/8"* Back *5/8"* Top *21/32"* Bottom *3/4"* Pitch of stays to ditto: Sides *7 1/2 x 7 3/4"* Back *8 x 7 1/16"*
 Top *8 x 8 1/4"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *225* Material of stays *Steel* Diameter at smallest part *1.73"* Area supported by each stay *66 sq in* Working pressure by rules *215* End plates in steam space: Material *Steel* Thickness *1 5/32"*
 Pitch of stays *17 x 15 1/4"* How are stays secured *D. nuts* Working pressure by rules *223* Material of stays *Steel* Diameter at smallest part *6.66"*
 Area supported by each stay *267.75 sq in* Working pressure by rules *259* Material of Front plates at bottom *Steel* Thickness *1 1/16"* Material of Lower back plate *Steel* Thickness *1 5/8"* Greatest pitch of stays *13 1/2" x 8"* Working pressure of plate by rules *355* Diameter of tubes *2 1/2"*
 Pitch of tubes *3 3/4" x 3 3/4"* Material of tube plates *Steel* Thickness: Front *1 5/32"* Back *3/4"* Mean pitch of stays *7 1/2"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *262 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *11" x 2 @ 3/4"* Length as per rule *2.8 3/4"* Distance apart *8 1/4"* Number and pitch of Stays in each *3 @ 8"*
 Working pressure by rules *266* 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,

James Gilchrist Director Manufacturer.

Is the approved plan of boiler forwarded herewith *Yes*Total No. of visits *94*

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

See accompanying report.

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

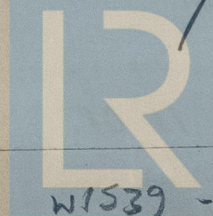
For remarks please see Rpt. 4.

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

Committee's Minute GLASGOW 17 NOV. 1908

Assigned See minute on accompanying report.

A. J. Thomas James Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register
 Foundation

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