

REPORT ON BOILERS.

No. 34288

WED. AUG. 19. 1914

WED. SEP. 9. 1914

Date of writing Report *3rd Aug. 1914* When handed in at Local Office *7. 8. 1914* Port of *Glasgow*
 No. in Survey held at *Pollackshaw, Glasgow* Date, First Survey *29. 4. 14* Last Survey *3. 8. 1914*
 Reg. Book. *Sup* on the *S/S 'SILVERBURN'* (Number of Visits *9*) Gross Tons *284* Net Tons *106*
 Master *Peter Gill* Built at *Maryport* By whom built *Maryport S.B. & Rep. Co. Ltd.* When built *1914*
 Engines made at *Glasgow* By whom made *Gauldie & Gillespie & Co.* When made *1914*
 Boilers made at *do.* By whom made *A. & N. Dalglisk (No 653)* When made *1914*
 Registered Horse Power Owners *Rae Bros* Port belonging to *Sunderland*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Steel Co. of Scotland*

(Letter for record *S*) Total Heating Surface of Boilers *1050 sq. ft.* Is forced draft fitted *No* No. and Description of Boilers *One single Ended Marine Type. Working Pressure 130 lb.* Tested by hydraulic pressure to *260 lb.* Date of test *3. 8. 14.*
 No. of Certificate *12823.* Can each boiler be worked separately *✓* Area of fire grate in each boiler *37.2 sq. ft.* No. and Description of safety valves to each boiler *Pair spring loaded* Area of each valve *4.9 sq. in.* Pressure to which they are adjusted *135 lb.*
 Are they fitted with easing gear *No* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *✓*
 Smallest distance between uptakes and bunkers *2'-0"* Inside diam. of boilers *11'-0"* Length *10'-0"*
 Material of shell plates *Steel* Thickness *23/32"* Range of tensile strength *28/32 tons* Are the shell plates welded or flanged *No*
 Descrip. of riveting: cir. seams *S.R. lap* long. seams *T.R. S.R.S.* Diameter of rivet holes in long. seams *7/8"* Pitch of rivets *5 3/4"*
 width of butt straps *13 3/4"* Per centages of strength of longitudinal joint rivets *86.0 %* Working pressure of shell by rules *134 lb.* Size of manhole in shell *16" x 12"* Size of compensating ring *6" x 23/32"* No. and Description of Furnaces in each boiler *2 plain* Material *Steel* Outside diameter *3'-6"* Length of plain part *79.5"* Thickness of plates *2 1/32"*
 Description of longitudinal joint *welded* No. of strengthening rings *none* Working pressure of furnace by the rules *133 lb.* Combustion chamber plates: Material *Steel* Thickness: Sides *7/32"* Back *7/32"* Top *7/32"* Bottom *29/32"* Pitch of stays to ditto: Sides *8 1/2"* Back *7 1/2"*
 Top *8 1/2"* If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *154 lb.* Material of stays *steel* Diameter at smallest part *1 3/4"* Area supported by each stay *56.25 sq. in.* Working pressure by rules *176* End plates in steam space: Material *steel* Thickness *1 3/16"*
 Pitch of stays *15" x 4 1/2"* How are stays secured *nuts* Working pressure by rules *136* Material of stays *steel* Diameter at smallest part *3.03"*
 Area supported by each stay *217.5 sq. in.* Working pressure by rules *145 lb.* Material of Front plates at bottom *steel* Thickness *1 1/16"* Material of lower back plate *steel* Thickness *1 1/16"* Greatest pitch of stays *16"* Working pressure of plate by rules *132* Diameter of tubes *3 1/4"*
 Pitch of tubes *4 1/2" x 4 1/2"* Material of tube plates *steel* Thickness: Front *1 1/16"* Back *5/8"* Mean pitch of stays *9" x 1 1/4"* Pitch across wide water spaces *14"* Working pressures by rules *182 lb.* Girders to Chamber tops: Material *steel* Depth and thickness of girder at centre *6 1/2" x 1 1/8"* Length as per rule *26 27/32"* Distance apart *7 1/2"* Number and pitch of Stays in each *2 @ 8"*
 Working pressure by rules *133 lb.* Superheater or Steam chest: how connected to boiler *none* 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 *✓*

Survey request form

The foregoing is a correct description,

No. *1530* attached*A. & N. Dalglisk* Manufacturers

Dates of Survey: During progress of work in shops - *1914. Apr 29. May 6 June 2. 10. July 3. 8. 9.* Is the approved plan of boiler forwarded herewith *Yes*
 while building: During erection on board vessel - *30. Aug 3.* Total No. of visits *9.*

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

The workmanship & materials are good. The boiler has been built under Special Survey, & will be fitted on board the vessel at Glasgow.

This boiler has been securely fitted aboard the above vessel and its safety valves adjusted under steam.

Survey Fee ... £ *3* : *10* : *0*When applied for, *1914*

Travelling Expenses (if any) £ : :

When received, *1914*

Committee's Minute

GLASGOW

18 AUG. 1914

Assigned

TRANSMIT TO LONDON

A. H. Pilditch P. J. M. M.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

GLASGOW

8 SEP. 1914

See minute on No. *34367*
 FRI. SEP. 11. 1914

Lloyd's Register
 Foundation