

REPORT ON BOILERS.

No. 33612

Received at London Office

WED. FEB. 11 1914
WED. JUN. 10. 1914

Date of writing Report 5th Feb 1914 When handed in at Local Office 7.2.1914 Port of Glasgow
 No. in Survey held at Pollotshaws Glasgow Date, First Survey 4-4-13 Last Survey 5th Feb 1914
 Reg. Book. Marine Boiler for S.S. "BERTY" (Number of Visits 26) Gross 43 Tons Net nil
 Master James Richardson Built at Bowling By whom built Scott & Sons (No 748) When built 1914
 Engines made at Glasgow By whom made Gauldie & Gillespie (No 121) When made 1914
 Boilers made at Pollotshaws, Glasgow By whom made A. & W. Dalglisk (No 594) When made 1914
 Registered Horse Power _____ Owners Robert Henry Munqall Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons.

(Letter for record S.) Total Heating Surface of Boilers 800 sq ft Is forced draft fitted Yes No. and Description of Boilers One Single Ended Marine Working Pressure 140 Tested by hydraulic pressure to 280 lbs Date of test 5.2.14
 No. of Certificate 12531 Can each boiler be worked separately Yes Area of fire grate in each boiler 29 sq ft No. and Description of safety valves to each boiler Pair spring loaded Area of each valve 3.98 sq in Pressure to which they are adjusted 145 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 5'-6" Inside Main dia. of boilers 10'-0" Length 9'-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. D.R.S. Diameter of rivet holes in long. seams 7/8 Pitch of rivets 5 1/2
 Top of plates or width of butt straps 13 3/4 Per centages of strength of longitudinal joint 90 Working pressure of shell by rules 146 lbs Size of manhole in shell 16 x 12 Size of compensating ring 7 x 23/32 No. and Description of Furnaces in each boiler 2 plain Material Steel Outside diameter 38 Length of plain part 67 Thickness of plates 5/8
 Description of longitudinal joint welded No. of strengthening rings one Working pressure of furnace by the rules 162 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 7/32 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 x 7 1/2 Back 8 x 7 1/2
 Top 8 x 7 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 144 lbs Material of stays Steel Diameter at smallest part 1 1/4 Area supported by each stay 60 Working pressure by rules 165 End plates in steam space: Material Steel Thickness 13/16
 Pitch of stays 14 x 13 How are stays secured D. nuts Working pressure by rules 162 Material of stays Steel Diameter at smallest part 3 x 26
 Area supported by each stay 182 Working pressure by rules 186 lbs Material of Front plates at bottom Steel Thickness 13/16 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays 15 Working pressure of plate by rules 195 Diameter of tubes 3 1/4
 Pitch of tubes 4 3/8 x 4 3/8 Material of tube plates Steel Thickness: Front 13/16 Back 7/8 Mean pitch of stays 9 5/8 Pitch across wide water spaces 13 1/4 Working pressures by rules 145 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 x 17/32 Length as per rule 26 27/32 Distance apart 7 Number and pitch of Stays in each 2 @ 8
 Working pressure by rules 156 lbs. Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately Yes Diameter 7 Length 7 Thickness of shell plates 13/16 Material Steel Description of longitudinal joint Welded Diam. of rivet holes 7/8 Pitch of rivets 5 1/2 Working pressure of shell by rules 145 Diameter of flue 7 Material of flue plates Steel Thickness 13/16
 If stiffened with rings Yes Distance between rings 7 Working pressure by rules 145 End plates: Thickness 13/16 How stayed By stays
 Working pressure of end plates 145 Area of safety valves to superheater Nil Are they fitted with easing gear Yes

Survey request form

No. 1160 attached

The foregoing is a correct description,

A. & W. Dalglisk Manufacturers

Dates of Survey while building: During progress of work in shops - 1913. Apr. 4-11-14. 19-23-28. May 7-22-31. June 2. Aug. 22. Is the approved plan of boiler forwarded herewith Yes.
 During erection on board vessel - 1914. Jan. 7. Feb. 5. Total No. of visits 26.

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 in the Glasgow district.

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

Survey Fee ... £ 2 : 13 - When applied for, 1914
 Travelling Expenses (if any) £ : : When received, 1914

GLASGOW 10 FEB. 1914

H. H. Pidditch P. J. Brown
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned Transmit to London

GLASGOW 9 - JUN 1914

See minute on Gls. Rpt. No. 344078.

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