

REPORT ON BOILERS.

No. 17225.

Received at London Office

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Date of writing Report 19/9/1917 When handed in at Local Office 13 Dec 1917 Port of Greenwich
 No. in Survey held at Port Glasgow Date, First Survey 7th Feb, 1916 Last Survey 12 Dec 1917
 Reg. Book. 1247 on the Steel screw steamer "Argantock" (Number of Visits 88) Gross 241 Net 146
 Master Built at Port Glasgow By whom built Ferguson Bros. Limited When built 1917
 Engines made at Port Glasgow By whom made Ferguson Bros. Limited When made 1917
 Boilers made at Port Glasgow By whom made The Clyde S.P. & Co. Limited When made 1917
 Registered Horse Power Owners Lang & Fulton Limited Port belonging to Greenwich.

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

J. Dunlop & Co. Caldwellbank.

(Letter for record S) Total Heating Surface of Boilers 1960 sq ft Is forced draft fitted Yes No. and Description of Boilers One single ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 5/9/17
 No. of Certificate 1305 Can each boiler be worked separately Yes Area of fire grate in each boiler 60 sq ft No. and Description of safety valves to each boiler Two spring Area of each valve 594 sq in Pressure to which they are adjusted 185 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 22 in Inside Mean dia. of boiler 14' 6" Length 10' 6"
 Material of shell plates Steel Thickness 1 3/8" Range of tensile strength 28,112 lbs Are the shell plates welded or flanged Yes
 Descrip. of riveting: cir. seams double long. seams double straps Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 8"
 Lap of plates or width of butt straps 17 1/2" Per centages of strength of longitudinal joint 82.7 Working pressure of shell by rules 183 lbs Size of manhole in shell 16" x 12" Size of compensating ring 33 1/2" x 1 3/8" No. and Description of Furnaces in each boiler 3, Deighton Material Steel Outside diameter 46 1/4" Length of plain part top Thickness of plates crown bottom 2 1/8"
 Description of longitudinal joint Welded No. of strengthening rings 1 Working pressure of furnace by the rules 191 lbs Combustion chamber plates: Material Steel Thickness: Sides 1 3/8" Back 1 3/8" Top 1 3/8" Bottom 1 3/8" Pitch of stays to ditto: Sides 8 1/2" x 7 1/2" Back 9" x 8" Top 8 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 lbs Material of stays Steel Area at smallest part 1 7/8" Area supported by each stay 72" Working pressure by rules 191 lbs End plates in steam space: Material Steel Thickness 1 3/8" Pitch of stays 17 1/2" x 15" How are stays secured With nuts Working pressure by rules 187 lbs Material of stays Steel Area at smallest part 4 7/8" Area supported by each stay 255 sq in Working pressure by rules 194 lbs Material of Front plates at bottom Steel Thickness 1 3/8" Material of Lower back plate Steel Thickness 1 3/8" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 184 lbs Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 1 3/8" Back 1 3/8" Mean pitch of stays 9" Pitch across wide water spaces 14 1/4" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 1/2" x 1 1/2" Length as per rule 27 1/4" Distance apart 8" Number and pitch of Stays in each 3 - 7 1/2" Working pressure by rules 232 lbs 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 Yes

The foregoing is a correct description.

H. J. Lamb. Manufacturer.

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

(1st Entry Machinery).

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

Workmanship good.

This Main Boiler has been constructed under special survey in accordance with the approved photo print, tested by hydraulic pressure and found tight & sound.

Survey Fee £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191

Graham R. Manton

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

Committee's Minute GLASGOW 27 DEC. 1917

Assigned See accompanying machinery report.



Lloyd's Register Foundation

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