

REPORT ON BOILERS.

No. 8444

Received at London Office MON. DEC. 28. 1914

Date of writing Report 1914 When handed in at Local Office Dec. 24 1914 Port of Midlothian
 No. in Survey held at Stockton Date, First Survey See Machinery Report Last Survey Report 191
 Reg. Book. on the STEEL SCREEN STEAMER "AMPLEFORTH" (Number of Visits) Gross Tons }
 Master Built at Stockton By whom built Messrs Richardson Duck & Co Ltd When built 1914
 Engines made at Stockton By whom made Messrs Blair & Co Ltd (1811) When made 1914
 Boilers made at Stockton By whom made Messrs Blair & Co Ltd (E 569) When made 1914
 Registered Horse Power Owners The Ampleforth Steamer Ship Co Ltd Port belonging to

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

(Letter for record 5) Total Heating Surface of Boilers 840 sq ft Is forced draft fitted No No. and Description of Boilers One S.E. Cyl Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 13-11-14
 No. of Certificate 5416 Can each boiler be worked separately Yes Area of fire grate in each boiler 28 3/4 sq ft No. and Description of safety valves to each boiler direct spring loaded 2 of Area of each valve 3.94 sq in Pressure to which they are adjusted 180 lbs
 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 1-10" Ext. dia. of boilers 10-0" Length 10-0"
 Material of shell plates Stul Thickness 13/16" Range of tensile strength 29 3/4 - 33 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 2 R. Lap. long. seams 2 B. 2 Riv. Diameter of rivet holes in long. seams 1" Pitch of rivets 4"
 Top of plates or width of butt straps 15 3/8" + 3/4" Per centages of strength of longitudinal joint 103 Working pressure of shell by rules 186 lbs Size of manhole in shell 16 x 12 Size of compensating ring 4 1/2" x 13/16" No. and Description of Furnaces in each boiler 2 plain Material Stul Outside diameter 36 5/8" Length of plain part 44.9" Thickness of plates 4 3/64" crown 8 mean bottom 8 mean
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 194 lbs Combustion chamber plates: Material Stul Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 15/16" Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 9 1/2" x 9 1/2"
 Top 9 3/4" x 9 1/4" If stays are fitted with nuts or riveted heads no Working pressure by rules 185 lbs Material of stays Stul Diameter at smallest part 1.99" Area supported by each stay 85.5 sq in Working pressure by rules 210 lbs End plates in steam space: Material Stul Thickness 1 3/32" Pitch of stays 4 1/2" x 13" How are stays secured nut & washer Working pressure by rules 220 lbs Material of stays Stul Diameter at smallest part 4.11"
 Area supported by each stay 204 sq in Working pressure by rules 209 lbs Material of Front plates at bottom Stul Thickness 1 3/32" Material of Lower back plate Stul Thickness 1 3/32" Greatest pitch of stays 14 x 9" Working pressure of plate by rules 265 lbs Diameter of tubes 3 1/4"
 Pitch of tubes 4 5/8" x 4 1/2" Material of tube plates Stul Thickness: Front 1 3/32" Back 13/16" Mean pitch of stays 10 1/16" Pitch across wide water spaces 14 1/2" Working pressures by rules 184 lbs Girders to Chamber tops: Material Stul Depth and thickness of girder at centre 4 1/8" x 1 1/2" Length as per rule 24 1/2" Distance apart 8 3/4" Number and pitch of Stays in each 2 @ 9 1/2"
 Working pressure by rules 184 lbs Superheater or Steam chest: low connected to boiler no Can the superheater be shut off and the boiler worked separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
 If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
 Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

The foregoing is a correct description,
 For **BLAIR & CO., LIMITED** Manufacturer.
Geo. Vethership

Dates of Survey During progress of work in shops - - - See Machinery Report Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been built under Special Survey, is of good material and workmanship and under hydraulic test found to be satisfactory. It has now been fitted securely on board and the safety valves adjusted under steam.

Survey Fee ... £ 2 : 16 : When applied for, ... 191
 Travelling Expenses (if any) £ : : When received, ... 191

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

Committee's Minute TUE. DEC. 29 1914
 Assigned



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