

REPORT ON BOILERS.

No. 8777

Received at London Office MON. DEC. 28. 1914

Date of writing Report 1914 When handed in at Local Office Dec. 24th 1914 Port of Middlesbrough
 No. in Survey held at Stockton Date, First Survey See. Mch. Last Survey Report. 191
 Reg. Book. on the STEEL SCREW 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 Ship 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. 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 steel 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 R. Diameter of rivet holes in long. seams 1" Pitch of rivets 4"
 Lap of plates or width of butt straps 15 3/8" + 3/4" Per centages of strength of longitudinal joint rivets 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 steel Outside diameter 36 5/8" Length of plain part top 44 1/2" bottom 103 Thickness of plates crown 43/64" 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 steel 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" AREA
 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 steel Diameter at smallest part 1.09" Area supported by each stay 85.5 sq. in. Working pressure by rules 210 lbs. End plates in steam space: Material steel Thickness 1/32" AREA
 Pitch of stays 14 x 13 How are stays secured nuts (4 x 3/4) Working pressure by rules 220 lbs. Material of stays steel Diameter at smallest part 4.11" AREA
 Area supported by each stay 204 sq. in. Working pressure by rules 209 lbs. Material of Front plates at bottom steel Thickness 1/32" Material of Lower back plate steel Thickness 1/32" 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 steel Thickness: Front 1/32" Back 13/16" Mean pitch of stays 10 1/16" Pitch across wide water spaces 14 1/2" Working pressures by rules 187 lbs. Girders to Chamber tops: Material steel 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: how connected to boiler how 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,
 For BLAIR & CO., LIMITED

Manufacturer.

Dates of Survey During progress of work in shops - - - See Machinery Report.
 while During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith Yes.

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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