

REPORT ON BOILERS.

No. 27512

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Writing Report 2-4-1919 When handed in at Local Office 14 MAY 1919 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 10-6-18 Last Survey 10-1-1919
 Reg. Book. ADMIRAL HAMILTON (Number of Visits 15) Gross 3100
 on the Three Main Boilers for the S.S. WAR GLOBE Tons Net 1872
 Master A. S. Gibb Built at Sunderland By whom built J. Frestman & Co. When built 1919-5 mo.
 Engines made at Sunderland By whom made Richardsons Westgarth & Co. Ltd. (No. 2146) When made 1919
 Boilers made at Sunderland By whom made Richardsons Westgarth & Co. Ltd. (No. 2145) When made 1919
 Registered Horse Power _____ Owners Byron & Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons, Ltd.

(Letter for record S) Total Heating Surface of Boilers 6100 sq ft Is forced draft fitted No. No. and Description of Boilers Three single ended Marine Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 18-12-18
 No. of Certificate 3519 Can each boiler be worked separately Yes Area of fire grate in each boiler 51.4 sq ft No. and Description of safety valves to each boiler Two, direct spring Area of each valve 5.9 sq in Pressure to which they are adjusted ✓
 Are they fitted with easing gear ✓ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓
 Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 14-0 Length 11-6
 Material of shell plates Steel Thickness 1 1/8 Range of tensile strength 28 3/4 - 33 1/4 Are the shell plates welded or flanged No.
 Descrip. of riveting: cir. seams D.R long. seams T.R, D.B.S. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 1/2
 Lap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 86.1 plate 86 Working pressure of shell by rules 185 Size of manhole in END shell 16 x 12 Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 43" Length of plain part top 14" Thickness of plates bottom 32" crown } 14" bottom } 32"
 Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 190 Combustion chamber plates: Material Steel Thickness: Sides 11/16 Back 3/4 Top 11/16 Bottom 11/16 Pitch of stays to ditto: Sides 9 x 9 3/8 Back 9 x 10 1/2 Top 9 x 9 3/8 If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 194 Material of stays Steel Area at smallest part 2.03 sq in Area supported by each stay 84.4 sq in Working pressure by rules 216 End plates in steam space: Material Steel Thickness 1 1/32 Pitch of stays 23 3/4 x 19 1/2 How are stays secured D.N. & W. Working pressure by rules 181 Material of stays Steel Area at smallest part 8.48 sq in Area supported by each stay 463 sq in Working pressure by rules 190 Material of Front plates at bottom Steel Thickness 31/32 Material of Lower back plate Steel Thickness 27/32 Greatest pitch of stays 13 1/2 x 9 Working pressure of plate by rules 187 Diameter of tubes 3 1/4 Pitch of tubes 7 1/2 x 4 3/8 Material of tube plates Steel Thickness: Front 31/32 Back 3/4 Mean pitch of stays 10" Pitch across wide water spaces 13 1/2 Working pressures by rules 184 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 @ 10 1/2 x 3/4 Length as per rule 2-11 1/2 Distance apart 9 3/8 Number and pitch of Stays in each 3 @ 9" Working pressure by rules 200 Steam dome: description of joint to shell None % of strength of joint _____
 Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type None Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

FOR RICHARDSONS, WESTGARTH & CO., LTD.
Nedric H. Russell The foregoing is a correct description, Manufacturer.
 ASSISTANT MANAGER

Dates of Survey During progress of 1918: June 10, July 25, Aug. 7, Sep. 9, 24, Oct 8, 25, Nov. 25, Dec. 6, 11, 14, 18, 20, 31. 1919: Jan. 10. Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel Total No. of visits 15.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boilers have been constructed under special survey. The workmanship and materials are good. The Machinery has been built and fitted in the Standard "C" type vessel under B.C. survey. The following engine particulars are for insertion in the Register Book—T. 30. 25", 41", + 68"-45" B.C. certificate for machinery hereto attached 368 N.H.P.

Survey Fee £ 17: 4: 5 When applied for, 14 MAY 1919
 Travelling Expenses (if any) £ : When received, 21.6. 1919

Committee's Minute TUE. 20 MAY. 1919
See accompanying file on hull (B.C. engine)
 Ed. W. Hutter. Engineer Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation