

REPORT ON BOILERS.

No. 37818

Received at London Office FRI. 2-MAY. 1918

Date of writing Report 15. 12. 1917 When handed in at Local Office 1917 Port of 1917
 No. in Survey held at Painey Date, First Survey 2/11/17 Last Survey 14/12/1917
 Reg. Book. on the S.S. WAR MUSKET (Number of Visits 23) (Gross Tons) (Net Tons)
 Master Bristol Built at Bristol By whom built Blair Bell & Co (S/S. 124) When built 1918
 Engines made at Sunderland By whom made Mellor & Pollock Ltd. When made 1918
 Boilers made at Painey By whom made A.F. Craig & Co Ltd. 00517 When made 1917
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY~~ OR DONKEY.—Manufacturers of Steel Wm. Rankine & Co. Ltd.
 (Letter for record) Total Heating Surface of Boilers 4680 sq ft Is forced draft fitted yes No. and Description of Boilers 2 Single Ended
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 14.12.17
 No. of Certificate 14023, 14025 Can each boiler be worked separately yes Area of fire grate in each boiler 63.3 sq ft No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 12.56 sq in Pressure to which they are adjusted 185 lb
 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 Internal Mean dia. of boilers 15-6" Length 11-6"
 Material of shell plates S Thickness 1 1/4" Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams DRY long. seams TRIOBS Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 9 1/8"
 Lap of plates width of butt straps 19 1/2" Per centages of strength of longitudinal joint rivets 88.3% Working pressure of shell by rules 182 Size of manhole in shell 16 x 12" Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 50 3/16" Length of plain part top 19 1/2" Thickness of plates crown 19 1/2" bottom 19 1/2"
 Description of longitudinal joint weld. No. of strengthening rings 1 Working pressure of furnace by the rules 184 Combustion chamber plates: Material S Thickness: Sides 2 3/32" Back 1 1/16" Top 2 3/32" Bottom 2 3/32" Pitch of stays to ditto: Sides 10 5/8" Back 10 5/8" area 10 5/8" Diameter at Top 10 5/8" If stays are fitted with nuts or riveted heads no Working pressure by rules 180 Material of stays S Diameter at smallest part 1 1/32" Area supported by each stay 99 sq in Working pressure by rules 184 End plates in steam space: Material S Thickness 1 1/32" Pitch of stays 2 3/16" How are stays secured DN Working pressure by rules 187 Material of stays S Diameter at smallest part 8.29"
 Area supported by each stay 454 sq in Working pressure by rules 189 Material of Front plates at bottom S Thickness 2 1/32" Material of Lower back plate S Thickness 2 1/32" Greatest pitch of stays 13 3/8" Working pressure of plate by rules 205 Diameter of tubes 3"
 Pitch of tubes 4 1/8" Material of tube plates S Thickness: Front 3 1/32" Back 3/4" Mean pitch of stays 10 1/2" Pitch across wide water spaces 13 5/8" Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 11 x 7 1/8 (2) Length as per rule 38 1/2" Distance apart 10 5/8" Number and pitch of Stays in each 3 at 9 1/4"
 Working pressure by rules 206 Superheater or Steam chest: how connected to boiler yes 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 _____

Survey request form No. 1980 attached The foregoing is a correct description, CRAIG & Coy., Ltd. Manufacturer. Director T. Macintosh SECRETARY. yes
 Dates of Survey: During progress of work in shops - 19 Apr 2-12, 27 May 2-7, 22-31 June 11-19, July 19-27 Is the approved plan of boiler forwarded herewith yes
 while building (During erection on board vessel - - -) Aug 2-23, Sept 6-21, Oct 3-10, Nov 1-7, 16-26, Dec 13-14 Total No. of visits 23

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special Survey in accordance with the approved plan & the workmanship & material are of good quality. These boilers have been shipped to Bristol at which port they will be filled on board. These Boilers have now been fitted on above vessel & Safety Valves adjusted to above pressure.

Survey Fee _____ When applied for, 29th July 1918
 Travelling Expenses _____ When received, _____
 Committee's Minute GLASGOW 23 MAY 1918 W. Gordon Macintosh Engineer Surveyor to Lloyd's Register of British and Foreign Shipping. G. A. Dykes Toyne
 Assigned TRANSMIT TO _____ FRI. 2-AUG. 1918 Lloyd's Register Foundation
 068115-008121-0141