

Rpt. 5a.

REPORT ON BOILERS.

Received at London Office

Date of writing Report 4th Sept 1917 When handed in at Local Office 5/10/16 191 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 1915 May 19 Last Survey 1916 Oct 2
 Reg. Book. on the S. S. "Beaumaris" (Number of Visits 13) Gross 2372 Tons Net 1460
 Master S. S. "Beaumaris" Built at S. Shields By whom built J. T. Edrington & Co When built 1917
 Engines made at _____ By whom made _____ When made _____
 Boilers made at Stockton By whom made Messrs Thos Hudnott & Co (No 3699) When made 1916
 Registered Horse Power _____ Owners Jurress Witty & Co Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Messrs J. Spencer & Sons

(Letter for record (S)) Total Heating Surface of Boilers 604 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 2.10.16
 No. of Certificate 5690 Can each boiler be worked separately ✓ Area of fire grate in each boiler 26 1/2 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 11.04 sq in Pressure to which they are adjusted 105 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 9" External dia. of boilers 9'-0" Length 9'-0"
 Material of shell plates steel Thickness 9/16" Range of tensile strength 29-33 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams S-lap long. seams 3-Riv lap Diameter of rivet holes in long. seams 15/16" Pitch of rivets 3 1/2"
 Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint 89.6 Working pressure of shell by rules 103 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2" x 3/4" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 33" Length of plain part 70" Thickness of plates 1/2" crown 55" mean bottom 92"
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 106 Combustion chamber plates: Material steel Thickness: Sides 17/32" Back 17/32" Top 17/32" Bottom 11/16" Pitch of stays to ditto: Sides 9 1/2" one Back 8 1/2" x 9"
 Top 8 1/2" one If stays are fitted with nuts or riveted heads nuts Working pressure by rules 110 Material of stays steel Area at smallest part 1.19 Area supported by each stay 81 Working pressure by rules 117 End plates in steam space: Material steel Thickness 25/32"
 Pitch of stays 15 1/2" x 16 1/2" How are stays secured nuts & washers Working pressure by rules 109 Material of stays steel Area at smallest part 2.66
 Area supported by each stay 256 Working pressure by rules 108 Material of Front plates at bottom steel Thickness 25/32" Material of Lower back plate steel Thickness 25/32" Greatest pitch of stays 13" x 9" Working pressure of plate by rules 168 Diameter of tubes 3"
 Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates steel Thickness: Front 25/32" Back 19/32" Mean pitch of stays 10" Pitch across wide water spaces 13 1/2" Working pressures by rules 120 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6" x 1 1/4" Length as per rule 22 3/8" Distance apart 8 1/2" Number and pitch of Stays in each one
 Working pressure by rules 148 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 _____ 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 _____

SURVEY REQUEST NO. 1140 ATTACHED.

The foregoing is a correct description, J. J. Houston Manufacturer.

Dates of Survey: During progress of work in shops 1915 May 19, Jun 10-15, Oct 13, Nov 5-24, Dec 7. Is the approved plan of boiler forwarded herewith yes
 while building: During erection on board vessel 1916 Mar 7, Apr 4, May 12-23, Jun 7, Oct 2. Total No. of visits 13.

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 on completion was tested by hydraulic pressure with satisfactory results

Survey Fee ... £ 2-2-0 When applied for Monthly P/c
 Travelling Expenses (if any) £ _____ When received, _____

Wm Morrison & Co Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE SEP 11 1917.

Assigned _____

