

REPORT ON BOILERS.

No. 8115.

Received at London Office

WED. SEP. 24. 1913

Date of writing Report 23/9/13 191 When handed in at Local Office 191 Port of Guildenbrough 11 Febr - 1913
 No. in Survey held at Stockton-on-Tees Date, First Survey 18th June Last Survey 19th Sept 1913
 Reg. Book. on the Steel S.S. Ship of Ewrie (Number of Visits) (S.S. No 500) Tons } Gross 4645
 Net 2853
 Master White Built at Sunderland By whom built J. Z. Thompson & Sons Ltd When built 1913
 Engines made at Sunderland By whom made John Dickinson & Sons Ltd When made 1913
 Boilers made at Stockton By whom made Thos Riley Bros Ltd (No 4524) When made 1913
 Registered Horse Power Owners Barrie Shipping Co. Ltd (C. Barrie & Son) Port belonging to Dundee

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel J. Spencer & Sons
 (Letter for record (N)) Total Heating Surface of Boilers 1050 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 19.9.13
 No. of Certificate 5157 Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 1/2 sq ft No. and Description of safety valves to each boiler 2 Spring Area of each valve 3.4 sq in Pressure to which they are adjusted 123 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 12 in Inside Mean dia. of boilers 11'-0" Length 10'-0"
 Material of shell plates steel Thickness 1/2 in Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2-R. lap long. seams 2B-3 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7"
 Lap of plates or width of butt straps 13 1/2 x 1/2 Per centages of strength of longitudinal joint rivets 106. Working pressure of shell by rules 131 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 1 1/2 in. No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 40" Length of plain part 102 1/2 Thickness of plates 7/16 crown 2/32 bottom 7/32
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 139 Combustion chamber plates: Material steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 27/32 Pitch of stays to ditto: Sides 10" x 9" Back 9" x 9" Top 7 1/2 x 9 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 120 Material of stays iron Diameter at smallest part 1.73 Area supported by each stay 81 Working pressure by rules 128 End plates in steam space: Material steel Thickness 13/16 Pitch of stays 15 x 15 How are stays secured nuts & washers Working pressure by rules 139 Material of stays steel Diameter at smallest part 2.87
 Area supported by each stay 240 Working pressure by rules 124 Material of Front plates at bottom steel Thickness 1/2 Material of Lower back plate steel Thickness 13/16 Greatest pitch of stays 14" x 9" Working pressure of plate by rules 164 Diameter of tubes 3 1/2" Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates steel Thickness: Front 13/16 Back 1/2 Mean pitch of stays 10 15/16 Pitch across wide water spaces 14" Working pressures by rules 129 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 6 1/2" x 1 1/4" Length as per rule 27 Distance apart 7 1/2" Number and pitch of Stays in each 2 @ 5"
 Working pressure by rules 153 Superheater or Steam chest; how connected to boiler none 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 NO. 656. ATTACHED.

FOR THE FOREGOING IS A CORRECT DESCRIPTION, RILEY BROS. (BOILERMAKERS) LIMITED

Manufacturer.

Dates of Survey } During progress of work in shops - - } 1913. June 18. 20. Aug 26. Sep 2. 9. 19
 while building } During erection on board vessel - - - }
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 11 & Return for duplicate Boiler

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 fixed in place, mounted & examined under steam & its valves set to 123 lbs. J. J. Findlay

Survey Fee ... £ 3-10-0 When applied for, MONTHLY A/c.
 Travelling Expenses (if any) £ ✓ When received, 191

Wm Morrison

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

TUE. DEC. 2-1913

Committee's Minute TUE. NOV. 25. 1913

Assigned

