

# REPORT ON BOILERS.

No. 8201  
WED. NOV. 26. 1913

Received at London Office

pt. 5a.

No. of Reporting Report 25-11-1913 When handed in at Local Office 25-11-1913 Port of Middlesbrough 22 Decr. 1913  
 No. in Survey held at Hockton-on-Tees Date, First Survey 27<sup>th</sup> September Last Survey 1<sup>st</sup> November 1913  
 No. of Boilers on the Steel S.S. Mattisfont (Number of Visits 9/12) Gross 4784 Tons Net 2906  
 Name of Boiler Martin Built at Sunderland By whom built J. L. Thompson & Sons When built 1913  
 Where made at Sunderland By whom made John Dickinson & Sons Ltd When made 1913  
 Where made at Hockton By whom made Jesson Riley Bros (No. 4570) When made 1913  
 Registered Horse Power \_\_\_\_\_ Owners Century Shipping Co. Ltd Port belonging to London

**MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY.** - Manufacturers of Steel John Muncer & Sons  
 Letter for record (7) Total Heating Surface of Boilers 10500 Is forced draft fitted \_\_\_\_\_ No. and Description of Boilers One single ended  
 No. of Certificate 5185 Can each boiler be worked separately  Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 6.11.13  
 No. of safety valves to each boiler 2 Spring Area of each valve 5.4 Pressure to which they are adjusted 12 1/2 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 14 Mean dia. of boilers 11'-0" Length 10'-5"  
 Material of shell plates steel Thickness 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged No  
 Description of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15" Pitch of rivets 7"  
 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 87.57  
 No. of manhole in shell 131 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 13/16 No. and Description of Furnaces in each boiler 2 plain  
 Material steel Outside diameter 40" Length of plain part \_\_\_\_\_ top 76 3/4 Thickness of plates \_\_\_\_\_ bottom 102 1/2  
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 139 Combustion chamber thickness: 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"  
 Are stays 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"  
 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 13/16" 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 inter 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 @ 9"  
 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 \_\_\_\_\_  
 Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Diameter of flue \_\_\_\_\_ Material of flue plates \_\_\_\_\_ Thickness \_\_\_\_\_  
 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. 710 ATTACHED.

FOR THE FOREGOING IS A CORRECT DESCRIPTION,  
 RILEY BROS. BOILERMAKERS LIMITED  
 A. Riley Manufacturer.

Dates During progress of work in shops: 27. Sep. 2. 9. 13. 18. 23. 21. Nov. 3. 6.  
 while building: Dec. 12. 17. 22.

Is the approved plan of boiler forwarded herewith Yes  
 Total No. of visits 9/12

**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. Secured in place & examined under steam & safety valves adjusted to W10  
J. J. Findlay

Survey Fee ... £ 3 : 10 : When applied for, 191  
 Travelling Expenses (if any) £ : : When received, 191

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

TUE. JAN. 6 - 1914

Committee's Minute

Assigned



Lloyd's Register Foundation

W200-0142

W200-0145