

## REPORT ON BOILERS.

No. 6868.  
MON. JUL. 31. 1911

Date of writing Report 15.6.11 19 When handed in at Local Office 15.6.11 19 Port of MIDDLESBROUGH-ON-TEES.  
 No. in Survey held at Stockton-on-Tees Date, First Survey 17th Jan'y Last Survey 14th June 1911  
 Reg. Book. on the S.S. "Rokkusan Maru" (S.S. No 560) Tons { Gross Net  
 Master Built at Middlesbrough By whom built Sir Raylton Dixon & Co Ltd When built 1911  
 Engines made at By whom made when made  
 Boilers made at Stockton By whom made Messrs Riley Bros (No 4241) when made 1911  
 Registered Horse Power Owners Mitsui Bussan Kaisha Ltd Port belonging to Mitsui

## MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel John Mercer &amp; Sons

(Letter for record (S) ) Total Heating Surface of Boilers 1100 Is forced draft fitted no No. and Description of Boilers One Angle ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 14.6.11  
 No. of Certificate 4671 Can each boiler be worked separately Area of fire grate in each boiler 32 ft No. and Description of safety valves to each boiler 2 direct spring Area of each valve 3.14 Pressure to which they are adjusted 185  
 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 Inside diam. of boilers 11'-0" Length 10'-0"  
 Material of shell plates steel Thickness 15/16 Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams 2 Riv lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 7 1/2  
 Lap of plates or width of butt straps 16" x 15/16 Per centages of strength of longitudinal joint rivets 91.25 Working pressure of shell by rules 187 Size of manhole in shell 16" x 12" Size of compensating ring 30" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 41" Length of plain part top 76" Thickness of plates crown 5/16 bottom 103 1/2  
 Description of longitudinal joint Welded No. of strengthening rings none Working pressure of furnace by the rules 195 Combustion chamber plates: Material steel Thickness: Sides 5/8 Back 2 1/2 Top 5/8 Bottom 1" Pitch of stays to ditto: Sides 8 3/4 x 8 Back 9 1/4 x 8 1/2  
 Top 8 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Diameter at smallest part 1 1/2 Area supported by each stay 78.62 Working pressure by rules 180 End plates in steam space: Material steel Thickness 15/16  
 Pitch of stays 13 1/2 x 14 1/2 How are stays secured nuts & 6 x 1/2 long washers Working pressure by rules 180 Material of stays steel Diameter at smallest part 2 1/4  
 Area supported by each stay 225 Working pressure by rules 211 Material of Front plates at bottom steel Thickness 15/16 Material of Lower back plate steel Thickness 15/16 Greatest pitch of stays 13 1/2 x 8 1/2 Working pressure of plate by rules 215 Diameter of tubes 3 1/2  
 Pitch of tubes 4 1/2 x 4 5/8 Material of tube plates steel Thickness: Front 15/16 Back 3/4 Mean pitch of stays 10 3/8 Pitch across wide water spaces 13 1/2 Working pressures by rules 180 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2 x 1 1/2 Length as per rule 29 Distance apart 8 Number and pitch of Stays in each 208  
 Working pressure by rules 184 Superheater or Steam chest: 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

FOR RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey During progress of work in shops - - 1911 Jan'y 17, 19, 23, 24, 25, 26, 27, 29. Is the approved plan of boiler forwarded herewith  
 while building During erection on board vessel - - - June 1, 10, 14. Total No. of visits 14

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;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. The boiler is to be fitted on board at this port.

This boiler has now been SURVEYED REQUEST satisfactorily secured on board. The safety valves adjusted and the NO. 304 ATTACHED. boiler examined under steam.

Survey Fee ... £ 3 : 13 :

When applied for.

MONTHLY A/c

Travelling Expenses (if any) £ :

When received.

28.7.11

J. Morrison

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

Committee's Minute

TUE. AUG. 1-1911

Assigned



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Foundation