

REPORT ON BOILERS

No. 6881

Received at London Office 28 JUN 1911
MIDDLESBROUGH-ON-TEES.

Date of writing Report 27.6.11 19 When handed in at Local Office 27.6.11 19 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 14th March Last Survey 29th April 1911
 Reg. Book. on the steel screw steamer "Kinkasan Maru" S.S. No. 559 Tons } Gross 4938.8 } Net 254.69
 Master Y. Aoki Built at Middlesbrough By whom built Sir Raylton Dixon & Co When built 1911
 Engines made at Stockton By whom made Messrs Blair & Co Ltd when made 1911
 Boilers made at Stockton By whom made Messrs Riley Bros (No. 4240) when made 1911
 Registered Horse Power Owners Mitsui Bussan Kaisha Ltd Port belonging to Mitsui

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel J. Spencer & Sons
 Letter for record (5) Total Heating Surface of Boilers 1275 sq ft Is forced draft fitted No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 29.4.11
 No. of Certificate 4634 Can each boiler be worked separately Area of fire grate in each boiler 35 sq ft No. and Description of Safety valves to each boiler 2 direct spring Area of each valve 5.94 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 3 inches Mean dia. of boilers 11'-6" Length 10'-6"
 Material of shell plates steel Thickness 15/16 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Description of riveting: cir. seams 2 Riv lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 17/16 Pitch of rivets 7 3/4
 Spacing of plates or width of butt straps 15 1/4 x 15/16 Per centages of strength of longitudinal joint rivets 91.5 Working pressure of shell by plate 86.3
 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 44 Length of plain part top 78 1/2 Thickness of plates crown 13/16 bottom 89 mean
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 180 Combustion chamber plates: Material steel Thickness: Sides 2 1/2 Back 2 1/2 Top 2 1/2 Bottom 1" Pitch of stays to ditto: Sides 9 x 8 3/4 Back 8 1/4 x 9 1/4
 Top 8 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 190 Material of stays steel Diameter at smallest part 1 1/2 Area supported by each stay 76.2 Working pressure by rules 209 End plates in steam space: Material steel Thickness 3 1/2
 Pitch of stays 16 x 15 How are stays secured nuts Working pressure by rules 184 Material of stays steel Diameter at smallest part 2.41
 Area supported by each stay 240 Working pressure by rules 198 Material of Front plates at bottom steel Thickness 3 1/2 Material of lower back plate steel Thickness 3 1/2 Greatest pitch of stays 13 1/2 x 9 1/4 Working pressure of plate by rules 220 Diameter of tubes 3 1/2
 Pitch of tubes 4 3/4 x 4 5/8 Material of tube plates steel Thickness: Front 3 1/2 Back 2 5/8 Mean pitch of stays 10.78 Pitch across wide water spaces 13 1/2 Working pressures by rules 184 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 x 1 1/2 Length as per rule 30 Distance apart 8 Number and pitch of Stays in each 2 @ 8
 Working pressure by rules 194 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

The foregoing is a correct description,
 RILEY BROS. BOILERMAKERS LIMITED. Manufacturer.
 SECRETARY, Yes

Dates of Survey } During progress of work in shops - - } 1911. Mar 14. 16. 28. 31. Apr 7. 10. 14. 20. 24. 26. 29.
 while building } During erection on board vessel - - - }
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits 11

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. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee ... £ 4 - 5 - 0 When applied for, MONTHLY A/c.
 Travelling Expenses (if any) £ ... When received, 1911
 Wm Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI 30 JUN 1911
 Assigned WEDS. 4 JUL 1911

