

Ad Rpt. 24531

No. 6303

REPORT ON BOILERS.

Received at London Office FRI. 10 JUN 1910

Rpt. 5a.

Date of writing Report 1910 When handed in at Local Office 10th June 1910 Port of Middlebrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 19th May Last Survey 7th July 1910
 Reg. Book. S/S "Oakmere" (Number of Visits 5 S.S. No 259 Tons Gross Net)
 on the
 Master Built at Sunderland By whom built Sunderland S. P. Co Fin' When built 1910
 Engines made at A. Land. By whom made W. E. M. Eng'g Co L' when made 1910
 Boilers made at Stockton By whom made Messrs Riley Bros (No 4166) when made 1910
 Registered Horse Power Owners Port belonging to

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

Letter for record (5) Total Heating Surface of Boilers 450 Is forced draft fitted No. and Description of Boilers One Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 4.6.10
 No. of Certificate 4438 Can each boiler be worked separately Area of fire grate in each boiler 21 sq No. and Description of safety valves to each boiler 2 Spring. Area of each valve 4.9 sq Pressure to which they are adjusted 103 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 Inside dia. of boilers 8'-0" Length 8'-0"
 Material of shell plates steel Thickness 33/64 Range of tensile strength 28-32 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 4 1/2"
 Lap of plates 6 1/2" Per centages of strength of longitudinal joint rivets 81.7 plate 77.3 Working pressure of shell by rules 103 Size of manhole in shell 16" x 12" Size of compensating ring 9" x 9" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 30" Length of plain part top 62 1/2 Thickness of plates crown 15/32 bottom 51 mean
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 114 Combustion chamber plates: Material steel Thickness: Sides 15/32 Back 15/32 Top 15/32 Bottom 9/16 Pitch of stays to ditto: Sides 8 3/4 Back 8" x 8"
 Top 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 101 Material of stays steel Diameter at smallest part 1 1/8" Area supported by each stay 65.6 Working pressure by rules 121 End plates in steam space: Material steel Thickness 21/32
 Pitch of stays 14 x 19 1/2 How are stays secured nuts & 8 x 1/2 loose washers Working pressure by rules 100 Material of stays steel Diameter at smallest part 1.79
 Area supported by each stay 213.75 Working pressure by rules 122 Material of Front plates at bottom steel Thickness 21/32 Material of Lower back plate steel Thickness 21/32 Greatest pitch of stays 12" x 8" Working pressure of plate by rules 143 Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates steel Thickness: Front 21/32 Back 9/16 Mean pitch of stays 9 1/2" Pitch across wide water spaces 12 1/2 Working pressures by rules 105 lbs Girders to Chamber tops: Material steel Depth and thickness of girder at centre 5" x 1 1/4" Length as per rule 20" Distance apart 8" Number and pitch of Stays in each one
 Working pressure by rules 111 Superheater or Steam chest: ~~has 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

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

Dates of Survey During progress of work in shops - - 1910 May 19, 20, 26, June 1, 4
 while building During erection on board vessel - - - July 7
 Is the approved plan of boiler forwarded herewith yes
 Total No. of visits 6

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan, the Secretary's letter E-21.4.10 and in general conformity with the Rules. The materials and workmanship are sound and good, and on completion the boiler was tested by hydraulic pressure with satisfactory results Examined under steam & safety valves adjusted & found satisfactory
 Survey Fee ... £ 2-2-0 When applied for Monthly a/c.
 Travelling Expenses (if any) £

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

Committee's Minute WED. 3 AUG 1910
 Assigned see minute on Sld Rpt 24531
 Lloyd's Register Foundation
 WS10-0205