

REPORT ON BOILERS.

FRI. DEC. 8 - 1911

No. 7002

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No. of writing Report 9.9.11 When handed in at Local Office 11.9.11 Port of MIDDLESBROUGH-ON-TEES.
 No. in Survey held at Stockton-on-Tees Date, First Survey 3rd July Last Survey 4th Sept. 1911
 No. of Book. on the S.S. "Wimborne" (Number of Visits 11) Tons } Gross }
S.S. No. 147 } Net }
 Built at Thornaby By whom built Craig Taylor & Co When built 1911
 Engines made at _____ By whom made _____ when made _____
 Bunkers made at Stockton By whom made Jessons Riley Bros No. 4295 when made 1911
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS — ~~MAIN, AUXILIARY OR~~ **DONKEY.** — Manufacturers of Steel Jessons J. Spencer & Sons

Number for record (S) Total Heating Surface of Boilers 1025 sq ft Is forced draft fitted _____ No. and Description of Boilers One Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 4.9.11
 No. of Certificate 4728 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 105 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 Mean dia. of boilers 10'-6" Length 10'-6 27/32"
 Material of shell plates steel Thickness 9/16 Range of tensile strength 29-38 Are the shell plates welded or flanged no
 Direction of riveting: cir. seams 2 Riv lap long. seams 2 Riv - 2 Riv Diameter of rivet holes in long. seams 13/16 Pitch of rivets 4 1/2"
3 Rivets per pitch rivets 92.0 Working pressure of shell by plate 82.5
 Width of butt straps 8 1/2 x 7/8 Per centages of strength of longitudinal joint _____
 Size of manhole in shell 16" x 12" Size of compensating ring Mc. Neil's No. and Description of Furnaces in each 2 plain Material steel Outside diameter 39 Length of plain part 82 3/4" Thickness of plates 5/8 crown 5/8 bottom 6.6 mean
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 111 Combustion chamber Material steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 23/32 Pitch of stays to ditto: Sides 11" x 8" Back 10" x 10 1/2"
10 1/4 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 104 Material of stays steel Diameter at smallest part 1 3/8 Area supported by each stay 105 Working pressure by rules 113 End plates in steam space: Material steel Thickness 27/32
 How are stays secured nuts & 6 x 1/2 loose washers Working pressure by rules 100 Material of stays steel Diameter at smallest part 2.04
 Area supported by each stay 312 Working pressure by rules 108 Material of Front plates at bottom steel Thickness 27/32 Material of back plate steel Thickness 27/32 Greatest pitch of stays 13 x 10 1/2" Working pressure of plate by rules 176 Diameter of tubes 3 1/4"
 of tubes 4 1/2 x 4 3/8 Material of tube plates steel Thickness: Front 27/32 Back 5/8" Mean pitch of stays 11 1/8" Pitch across wide spaces 14" Working pressures by rules 113 Girders to Chamber tops: Material steel Depth and thickness of _____
 at centre 7" x 1 1/4" Length as per rule 27 Distance apart 10 1/4" Number and pitch of Stays in each 2 @ 8"
 Working pressure by rules 124 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked _____
 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 _____
 Fitted 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.

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 tested by hydraulic pressure with satisfactory results. The boiler is to be used on board at this port. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

Survey Fee ... £ 3-8-0 When applied for Monthly 1911
 Travelling Expenses (if any) £ _____ When received, 29.10.11
Wm Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.