

REPORT ON BOILERS

No. 67897
MON. AUG. 30. 1915

Received at London Office

Date of writing Report 17th August 1915 When handed in at Local Office 17. 8. 1915 Port of Newcastle-on-Tyne
 No. in Survey held at S. Shields Date, First Survey 7th Oct. 1914 Last Survey 17th Aug. 1915
 Reg. Book. on the S. S. "Steelville" (Number of Visits) } Gross 3649
 Tons } Net 2342
 Master Built at S. Shields By whom built John Readhead & Sons Ltd. When built 1915
 Engines made at S. Shields By whom made John Readhead & Sons Ltd. When made 1915
 Boilers made at do By whom made do When made 1915
 Registered Horse Power 332 Owners Balls & Stansfield Port belonging to R. Shields

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spence & Sons

(Letter for record R.) Total Heating Surface of Boilers 899 sq ft Is forced draft fitted no No. and Description of Boilers one, single-ended Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 2-7-15
 No. of Certificate 8790 Can each boiler be worked separately ✓ Area of fire grate in each boiler 30 sq ft No. and Description of safety valves to each boiler two, Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 95 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 on deck Mean dia. of boilers 10' 0" Length 10' 1"
 Material of shell plates Steel Thickness 5/8" Range of tensile strength 28.32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams S. Lap long. seams S. Lap Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 4 1/4"
 Lap of plates or width of butt straps 5 1/2" Per centages of strength of longitudinal joint rivets 70.8 Working pressure of shell by rules 96 lbs Size of manhole in shell 16" x 12" Size of compensating ring 8" x 5 1/8" No. and Description of Furnaces in each boiler 2 - plain Material Steel Outside diameter 36" Length of plain part top 74" Thickness of plates bottom 106" crown 1/2" bottom 5/8"
 Description of longitudinal joint S. Lap No. of strengthening rings ✓ Working pressure of furnace by the rules 100 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 10" x 10" Back 11" x 11" Top 10" x 10" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 109 lbs Material of stays Iron Diameter at smallest part 1.99" Area supported by each stay 121 sq in Working pressure by rules 123 lbs End plates in steam space: Material Steel Thickness 3/4" Pitch of stays 18" How are stays secured by double Working pressure by rules 90 lbs Material of stays Steel Diameter at smallest part 4.11" Area supported by each stay 324 sq in Working pressure by rules 131 lbs Material of Front plates at bottom Steel Thickness 1/16" Material of Lower back plate Steel Thickness 1/16" Greatest pitch of stays 12" Working pressure of plate by rules 123 lbs Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 1/16" Back 1/16" Mean pitch of stays 13 1/2" Pitch across wide water spaces 13 3/4" Working pressures by rules 93 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 3/4" x 1 1/2" Length as per rule 26" Distance apart 10" Number and pitch of Stays in each 2-10" Working pressure by rules 175 lbs 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 ✓

FOR JOHN READHEAD & SONS, LIMITED.
 The foregoing is a correct description,
John Readhead Manufacturer.
 DIRECTOR

Dates of Survey } During progress of } See Weekly Report Is the approved plan of boiler forwarded herewith yes
 while } work in shops - - }
 building } During erection on }
 board vessel - - - } Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been constructed under special survey & the materials & workmanship are sound & good.

Survey Fee ... £ machinery When applied for, 191
 Travelling Expenses (if any) £ repairs When received, 191

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

Committee's Minute TUE. AUG. 31. 1915

Assigned

