

## REPORT ON BOILERS

No. 67897  
MON. AUG. 30. 1915

Received at London Office

Date of writing Report 17<sup>th</sup> 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 7<sup>th</sup> Oct. 1914 Last Survey 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  
 Donkey Boilers made at S. Shields By whom made S. Shields When made 1915  
 Registered Horse Power 332 Owners Balls & Stanfield 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. 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 plate 72 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 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 Steel 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 In 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 &amp; SONS, LIMITED.

The foregoing is a correct description,

John Readhead Manufacturer.

Dates of Survey During progress of work in shops - -  
 while building During erection on board vessel - -

See Mchng Report

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

This donkey boiler has been constructed under special survey & the materials & workmanship are sound & good.

Survey Fee ... £ machinery  
 Travelling Expenses (if any) £ repairs

When applied for, 191...  
 When received, 191...

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

Committee's Minute TUE. AUG. 31. 1915

Assigned



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