

Rpt. 5a.

## REPORT ON BOILERS.

No. 9852.  
MON. 24 DEC. 1917

Received at London Office

Date of writing Report 1917 When handed in at Local Office 11.8.17 Port of Middlesbrough  
 No. in Survey held at Stockton-on-Tees Date, First Survey 22<sup>nd</sup> May/17 Last Survey 9<sup>th</sup> Aug 1917  
 Reg. Book. (Number of Visits 14)  
 Supp 43 on the new steel S/S "MONEYSPINNER". (S.S. No 289) Tons } Gross  
 Master Built at Sunderland By whom built Sunderland S. B. & Co When built  
 Engines made at Sunderland By whom made Macdonell & Pollock Ld. (No 266) When made 1914  
 Boilers made at Stockton By whom made Messrs Riley Bros Lim. (No 5051 + 52) When made 1917  
 Registered Horse Power Owners Riley & Co Ld. Port belonging to Goolie

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer &amp; Sons

(Letter for record (S) ) Total Heating Surface of Boilers 2260  $\frac{2}{\lambda}$  Is forced draft fitted no No. and Description of  
 Boilers 2 single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 9.8.17  
 No. of Certificate 5790 Can each boiler be worked separately yes Area of fire grate in each boiler 32  $\frac{1}{2}$  No. and Description of  
 safety valves to each boiler 2 direct spring Area of each valve 3.14  $\frac{1}{4}$  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  
 Smallest distance between boiler uptakes and bunkers on woodwork 3'-9" Inside Mean dia. of boilers 11'-0" Length 10'-6"  
 Material of shell plates steel Thickness  $\frac{15}{16}$  Range of tensile strength 28-32 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams 2 Riv. lap long. seams 2 B-3 Riv. Diameter of rivet holes in long. seams  $\frac{15}{16}$  Pitch of rivets  $6\frac{1}{4}$   
 Lap of plates or width of butt straps  $14 \times \frac{7}{8}$  Per centages of strength of longitudinal joint rivets 87.1 Working pressure of shell by  
 rules 183 Size of manhole in shell  $19 \times 15$  Size of compensating ring  $7 \times 1$  No. and Description of Furnaces in each  
 boiler 2 plain Material steel Outside diameter 40" Length of plain part top 79% Thickness of plates crown  $1\frac{1}{16}$   
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 186 Combustion chamber  
 plates: Material steel Thickness: Sides  $\frac{2}{32}$  Back  $\frac{2}{32}$  Top  $\frac{2}{32}$  Bottom  $\frac{7}{8}$  Pitch of stays to ditto: Sides  $9\frac{1}{2} \times 8$  Back  $9 \times 8\frac{1}{4}$   
 Top  $7\frac{1}{2} \times 8$  If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Area  
 smallest part 173 Area supported by each stay  $7\frac{1}{2} \times 25$  Working pressure by rules 193 End plates in steam space: Material steel Thickness  $\frac{15}{16}$   
 Pitch of stays  $15 \times 15$  How are stays secured nuts Working pressure by rules 185 Material of stays steel Area  
 Area supported by each stay 225 Working pressure by rules 190 Material of Front plates at bottom steel Thickness  $\frac{15}{16}$  Material of  
 Lower back plate steel Thickness  $\frac{15}{16}$  Greatest pitch of stays  $14 \times 8\frac{3}{4}$  Working pressure of plate by rules 223 Diameter of tubes  $3\frac{1}{4}$   
 Pitch of tubes  $4\frac{1}{2} \times 4\frac{1}{2}$  Material of tube plates steel Thickness: Front  $\frac{15}{16}$  Back  $\frac{13}{16}$  Mean pitch of stays  $10\frac{3}{8}$  Pitch across wide  
 water spaces  $13\frac{1}{2}$  Working pressures by rules 185 Girders to Chamber tops: Material steel Depth and thickness of  
 girder at centre  $8 \times 1\frac{1}{4}$  Length as per rule  $28\frac{1}{2}$  Distance apart  $7\frac{1}{2}$  Number and pitch of Stays in each 208  
 Working pressure by rules 195 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 FOR Are they fitted with easing gear

SURVEY BY  
 No. 1344/S. 1917.

RILEY BROS. (BOILERMAKERS) LIMITED.  
 The foregoing is a correct description,  
 Geo. W. Riley DIRECTOR, Manufacturer.

Dates of Survey During progress of 1917 May 22. June 5. 12. 21. 27. 29. July 3. 6. 10. Is the approved plan of boiler forwarded herewith yes  
 while building (During erection on board vessel ---) 18. 23. 27. 31. Aug 3.  
 (see Slt. Machy Rpt. for dates) Total No. of visits 14.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built under  
 special survey: are of good material and workmanship and on completion were tested by  
 hydraulic pressure with satisfactory results  
 Sunderland 17.12.17 The boilers have been satisfactorily fitted in the vessel and their safety valves adjusted under steam.

Survey Fee ... £ 7-11-0 When applied for, Monthly a/c  
 Travelling Expenses (if any) £ : When received, 1917

Committee's Minute

FRI. 1-FEB. 1918

Assigned

Wm Morrison J. Davis.  
 Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation

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