

Rpt. 5a.

## REPORT ON BOILERS.

No. 9894.

TUE.-9 OCT. 1917

Received at London Office

Date of writing Report 1917 When handed in at Local Office 6.10.17 Port of Middlesbrough  
 No. in Survey held at Stockton-on-Tees Date, First Survey 18<sup>th</sup> July Last Survey 2<sup>nd</sup> Oct. 1917  
 Reg. Book. on the S. S. "Wellington" (Number of Visits 8.) Gross 3228  
 (S.S.N. 197) Tons Net 1951  
 Master Built at Newcastle By whom built Tyne Iron S. B. Co. Ltd. When built 1918  
 Engines made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. When made 1918  
 Boilers made at Stockton By whom made Messrs Riley Bros. Ltd. (No. 4803) When made  
 Registered Horse Power Owners Ericsson Shipping Co. Ltd. Port belonging to Newcastle

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

(Letter for record (S)) Total Heating Surface of Boilers 750 f Is forced draft fitted no No. and Description of

Boilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 2.10.17

No. of Certificate 5808 Can each boiler be worked separately Area of fire grate in each boiler 28.4 f No. and Description of

safety valves to each boiler Two, Spring Area of each valve 5.41 sq. 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 on deck Inside Mean dia. of boilers 9'-6" Length 9'-0"

Material of shell plates Steel Thickness 1/2" Range of tensile strength 29 1/2 - 33 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams 2 R. lap Long. seams 2 B-2 Riv Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 5/8"

Lap of plates or width of butt straps 8 1/2" x 1/2" Per centages of strength of longitudinal joint rivets 100 Working pressure of shell by

rules 101 Size of manhole in shell 19" x 15" Size of compensating ring 7 x 3/4 in. 9 in. No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 35" Length of plain part top 66" Thickness of plates crown 1 1/32"

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 106 Combustion chamber

plates: Material Steel Thickness: Sides 5/8" Back 1 1/32" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 10" on Back 9" x 9 1/2"

Top 10" on If stays are fitted with nuts or riveted heads nuts Working pressure by rules 101 Material of stays steel Diameter at

smallest part 1.19 Area supported by each stay 85.5 Working pressure by rules 111 End plates in steam space: Material steel Thickness 3/4"

Pitch of stays 14" x 16 1/2" to tubes 6 x 1/2" washers Working pressure by rules 100 Material of stays steel Diameter at smallest part 2.87

Area supported by each stay 283 Working pressure by rules 106 Material of Front plates at bottom steel Thickness 3/4" Material of

Lower back plate steel Thickness 3/4" Greatest pitch of stays 13 1/4" x 9 1/2" Working pressure of plate by rules 145 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2" x 4 1/4" Material of tube plates steel Thickness: Front 3/4" Back 5/8" Mean pitch of stays 10 1/2" Pitch across wide

water spaces 13 1/4" Working pressures by rules 106 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 7" x 14" Length as per rule 26" Distance apart 10" Number and pitch of Stays in each on

Working pressure by rules 132 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

SURVEY REQUEST  
 No. 1123 ATTACHED.

FOR  
 RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey During progress of work in shops - - 1917. July 18. Aug 3. 9. 30. Sep 13. 20. Is the approved plan of boiler forwarded herewith yes  
 while During erection on board vessel - - 28. Oct 2. Total No. of visits 8. Return for duplicate Boiler

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.) This boiler has been built under special

Survey: is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results

Survey Fee ... £ 2-10-0 When applied for, Monthly a/c  
 Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

FRI. 15 FEB. 1918

Assigned

Wm Morrison & Field  
 Engineer-Surveyor to Lloyd's Register of Shipping.

Lloyd's Register  
 Foundation

W731-0058