

Rpt. 5a.

## REPORT ON BOILERS.

Sl. Rpt. 25171

No. 1108.

Date of writing Report 6.11.11 10 When handed in at Local Office 6.11.11 10 Port of MIDDLESBROUGH 5th March 1912  
 No. in Survey held at Stockton-on-Tees Date, First Survey 10th June Last Survey 1st Oct. 1911  
 Reg. Book. on the S/S "WINLATON" S.S. No. 271 (Number of Visits 14) Gross 3263 Tons Net 2061  
 Master Built at Sunderland By whom built R. Thompson & Sons When built 1912  
 Engines made at Stockton By whom made Blain & Co. Ltd when made 1912  
 Boilers made at Stockton By whom made Messrs J. Sudron & Co. Ltd (No. 2891) when made 1911  
 Registered Horse Power Owners Gordon & Co. Ltd Port belonging to London

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

(Letter for record (r) ) Total Heating Surface of Boilers 650 sq ft 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 31.10.11  
 No. of Certificate 4769 Can each boiler be worked separately ✓ Area of fire grate in each boiler 27½ sq ft No. and Description of safety valves to each boiler Two direct spring Area of each valve 4.910" Pressure to which they are adjusted 102  
 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 16" External Mean dia. of boilers 9'-6" Length 9'-0"  
 Material of shell plates steel Thickness 19/32 Range of tensile strength 29-33 Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams Sing! lap long. seams 3 Riv lap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3½  
 Lap of plates or width of butt straps 6½ Per centages of strength of longitudinal joint rivets 84.8 plate 73.14 Working pressure of shell by rules 103 lb Size of manhole in shell 16" x 12" Size of compensating ring 5½ x 4½ No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 36" Length of plain part top 69 crown 9/16 bottom 92½ Thickness of plates bottom 6 9/16  
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 116 Combustion chamber plates: Material steel Thickness: Sides 17/32 Back 17/32 Top 17/32 Bottom 5/8" Pitch of stays to ditto: Sides 9½ Back 9½ x 9½ on row  
 Top 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 100 Material of stays iron Diameter at smallest part 1.45 Area supported by each stay 87.28 Working pressure by rules 100 End plates in steam space: Material steel Thickness 13/16  
 Pitch of stays 16 x 16 3/4 How are stays secured nuts & 6 x 17/32 iron washers Working pressure by rules 119 Material of stays steel Diameter at smallest part 2.09  
 Area supported by each stay 276 Working pressure by rules 130 Material of Front plates at bottom steel Thickness 13/16 Material of Lower back plate steel Thickness 13/16 Greatest pitch of stays 13 x 9½ Working pressure of plate by rules 176 Diameter of tubes 3½"  
 Pitch of tubes 4½ x 4½ Material of tube plates steel Thickness: Front 13/16 Back 19/32 Mean pitch of stays 10½" Pitch across wide water spaces 13¾ Working pressures by rules 123 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 5½ x 1½ Length as per rule 23¾ Distance apart 9" Number and pitch of Stays in each one  
 Working pressure by rules 100 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

The foregoing is a correct description,

THOMAS SUDRON &amp; CO. LIMITED.

Manufacturer.

Dates of Survey During progress of work in shops - - 1911 June 20. 28. July 10. Aug. 9. 21. Is the approved plan of boiler forwarded herewith yes  
 while building During erection on board vessel - - - 28. Sept. 7. 13. 21. 28. Oct. 4. 10. 13. 31. Total No. of visits 14 18  
 Jan 30. Feb. 26. 28. Mar 5

## 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  
 This boiler has been satisfactorily fitted on the main deck of the vessel and its safety valves adjusted as above. Thickness of adjusting washers - 5/16 for 3/8 aft.

Survey Fee ... £ 2-3-0

When applied for, MONTHLY A/c.

Travelling Expenses (if any) £ :

When received, 19.

Committee's Minute

FRI. MAR. 15. 1912

Assigned

Wm Morrison & Co. Ltd  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Lloyd's Register  
 Foundation

W726-0063