

Rpt. 5a.

## REPORT ON BOILERS.

No. 6611  
I.U.F.S. 28 MAR 1911  
SAT. 14 JAN 1911

Date of writing Report 13/1/11 When handed in at Local Office 13th Jan. 11 Port of Middlesbrough  
 No. in Survey held at Stockton-on-Tees Date, First Survey 4th Dec. 1910 Last Survey 9th Jan. 1911  
 Reg. Book. on the Steel Screw Steamer "Amicus" S.S.N. 143 Tons 10 Gross  
 Master Thornaby Built at Thornaby By whom built Thos Craig Taylor & Co When built 1911  
 Engines made at Sunderland By whom made H. E. Marine Eng Co Ltd when made  
 Boilers made at Stockton By whom made Thos Riley Bros (No 4191) when made 1911  
 Registered Horse Power Owners Port belonging to

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel J. Spencer & Sons  
 (Letter for record (5)) Total Heating Surface of Boilers 885 sq Is forced draft fitted  
 Boilers One Single Ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 9.1.11  
 No. of Certificate 4556 Can each boiler be worked separately Area of fire grate in each boiler 29 sq No. and Description of  
 safety valves to each boiler 2 direct spring Area of each valve 4.91 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 Inside Mean dia. of boilers 10'-0" Length 10'-0"  
 Material of shell plates steel Thickness 9/16" 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 Riv Diameter of rivet holes in long. seams 13/16" Pitch of rivets 4 1/2"  
3 Rivets per pitch  
 Lap of plates or width of butt straps 8 1/2 x 9/16" Per centages of strength of longitudinal joint rivets 91.8 Working pressure of shell by  
 rules 106 lbs Size of manhole in shell 16 x 12 Size of compensating ring 4 in. dia plate 81.9  
 No. and Description of Furnaces in each  
 boiler 2 plain Material steel Outside diameter 36" Length of plain part top 78 1/4" Thickness of plates crown 3/8"  
 bottom 105" bottom 3/8" man  
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 111 Combustion chamber  
 plates: Material steel Thickness: Sides 1/2" Back 3/8" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 10" x 7" Back 9 1/2" x 8 1/2"  
 Top 10" x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 103 Material of stays steel Diameter at  
 smallest part 1 1/8" Area supported by each stay 70 Working pressure by rules 113 End plates in steam space: Material steel Thickness 1 1/2"  
 Pitch of stays 19 1/2" to tubes How are stays secured nuts Working pressure by rules 100 Material of stays steel Diameter at smallest part 2.41  
 Area supported by each stay 372.25 Working pressure by rules 128 Material of Front plates at bottom steel Thickness 1 1/2" Material of  
 Lower back plate steel Thickness 1 1/2" Greatest pitch of stays 21 1/2" x 8 1/2" Working pressure of plate by rules 100 Diameter of tubes 3 1/4"  
 Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates steel Thickness: Front 1 1/2" Back 5/8" Mean pitch of stays 10" Pitch across wide  
 water spaces 13 1/2" Working pressures by rules 120 Girders to Chamber tops: Material steel Depth and thickness of  
 girder at centre 6 1/2" x 1 1/4" Length as per rule 26" Distance apart 10" Number and pitch of Stays in each 2 @ 7"  
 Working pressure by rules 114 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,  
J. W. Riley Manufacturer.

Dates of Survey: During progress of work in shops -- 1910. Dec. 4, 6, 8, 11, 18, 20, 21, 28. Nov. 2, 29. Is the approved plan of boiler forwarded herewith yes  
 while building: During erection on board vessel -- Dec. 20, 23, 20. 1911. Jan. 5, 9. Total No. of visits 11

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &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. The boiler is to be fitted on board at this port. The boiler has now been satisfactorily secured on board, examined under steam and safety valves adjusted.

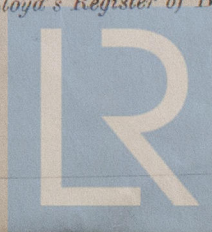
Survey Fee ... £ 2-19-0 When applied for 16.2.11  
 Travelling Expenses (if any) £ : : When received, 28. 2. 11

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

Committee's Minute

FRI. 31 MAR 1911

Assigned



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Foundation



REPORT ON BOILERS

RETAIN

RETAIN

Boiler  
No.  
Date  
Inspector  
Remarks  
Location  
Type  
Material  
Pressure  
Temperature  
Water  
Steam  
Fuel  
Air  
Oil  
Gas  
Electricity  
Other  
Notes  
Signature  
Date

GENERAL REMARKS

