

pt. 5a.

# REPORT ON BOILERS.

No. 7659

22 NOV. 23. 1912

Received at London Office

Date of writing Report 22/11/12 When handed in at Local Office 22. 11 1912 Port of Middlesbrough  
No. in Survey held at Stockton-on-Tees Date, First Survey 9th Sept. Last Survey 21st Nov. 1912  
Reg. Book. S.S. No. 206  
on the  
Master Built at Sudbrook By whom built C.H. Walker & Co When made  
Engines made at By whom made  
Boilers made at Stockton By whom made Messrs Thos Sudron & Co (No. 3132) When made 1912  
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons  
(Letter for record (S)) Total Heating Surface of Boilers 1054 sq ft Is forced draft fitted No. and Description of  
Boilers One single ended Working Pressure 125 Tested by hydraulic pressure to 250 Date of test 10.10.12  
No. of Certificate 4960 Can each boiler be worked separately Area of fire grate in each boiler 36 sq ft No. and Description of  
safety valves to each boiler 2 direct spring Area of each valve 5.94 Pressure to which they are adjusted  
Are they fitted with easing gear In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler  
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 11'-0" Length 10'-0"  
Material of shell plates steel Thickness 1/4" Range of tensile strength 29-33 Are the shell plates welded or flanged no  
Descrip. of riveting: cir. seams 2 Riv lap long. seams 2 Riv 2 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5"  
Pitch of plates or width of butt straps 9 7/8 x 1/2 in 3 Rivs per pitch rivets 89.2 Working pressure of shell by  
No. 126 Size of manhole in shell 16" x 12" Size of compensating ring 5 1/2 x 15/16 plate 81.2  
Boiler 2 plain Material steel Outside diameter 40 1/2" Length of plain part top 79 7/8 bottom 104 Thickness of plates crown 2 1/32  
Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 125 Combustion chamber  
plates: Material steel Thickness: Sides 19/32 Back 9/16 Top 19/32 Bottom 13/16 Pitch of stays to ditto: Sides 9 1/2 one Back 8 3/4 x 9 1/2  
Top 8 one If stays are fitted with nuts or riveted heads nuts Working pressure by rules 131 Material of stays steel Diameter at  
smallest part 1.45 Area supported by each stay 83 Working pressure by rules 140 End plates in steam space: Material steel Thickness 25/32  
Pitch of stays 15 x 14 1/4 How are stays secured nuts & 5 x 7/16 washers Working pressure by rules 177 Material of stays steel Diameter at smallest part 2 1/16  
Area supported by each stay 222 Working pressure by rules 125 Material of Front plates at bottom steel Thickness 25/32 Material of  
lower back plate steel Thickness 25/32 Greatest pitch of stays 4 x 9 1/2 Working pressure of plate by rules 147 Diameter of tubes 3 1/2"  
Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates steel Thickness: Front 25/32 Back 23/32 Mean pitch of stays 11 7/8 Pitch across wide  
water spaces 14" Working pressure by rules 127 Girders to Chamber tops: Material steel Depth and thickness of  
order at centre 6 3/4 x 1 1/4 Length as per rule 25 1/8 Distance apart 8" Number and pitch of Stays in each one  
Working pressure by rules 160 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 & CO. LIMITED Manufacturer.

Dates of Survey During progress of work in shops - - 1912. Sept. 9. 17. 24. 27. Oct. 2. 4. 9. 10. Nov. 8. 1912 Is the approved plan of boiler forwarded herewith yes  
while building During erection on board vessel - - - Total No. of visits 11 Return for duplicate - 1/2

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 was also examined under full  
working steam pressure and afterwards examined internally & externally & found satisfactory

Survey Fee ... £ 3-10-0 When applied for, MONTHLY 1912  
Travelling Expenses (if any) £ : : When received, 191

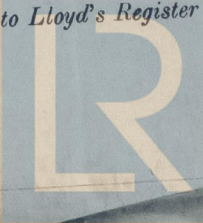
Wm Morrison  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. MAR. 7-1913

Assigned

REQUEST  
ATTACHED.



Lloyd's Register  
Foundation

012454-012459-038