

Rpt. 5a.

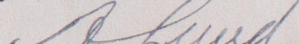
REPORT ON BOILERS.

Received at London Office

Date of writing Report 26.10.12 When handed in at Local Office 28.10.12 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 31. July Last Survey 16. Oct. 1912
 Reg. Book. Steel S.S. "Docoa" (Number of Visits 10) Gross 2743
 on the Steel S.S. "Docoa" S.S.N. 277 Tons Net 1714
 Master E. L. Hogg Built at Sunderland By whom built Robt Thompson & Sons When built 1913
 Engines made at Sunderland By whom made W. E. Harrison Eng. & Shd. When made 1913
 Boilers made at Stockton By whom made Kussers Riley Bros Ltd (No 4465) When made 1912
 Registered Horse Power Owners Cie. des Chargeurs Francais Port belonging to Bayonne

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ Manufacturers of Steel John Hunsar & Sons
 (Letter for record (S)) Total Heating Surface of Boilers 750 sq ft Is forced draft fitted No No. and Description of
 Boilers One single ended Working Pressure 90 Tested by hydraulic pressure to 180 Date of test 16.10.12
 No. of Certificate 4962 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28.4 sq ft No. and Description of
 safety valves to each boiler Two direct spring Area of each valve 11.91 sq in Pressure to which they are adjusted 92 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 11" (inside) dia. of boilers 9'-6" Length 9'-0"
 Material of shell plates steel Thickness 1 1/2 Range of tensile strength 29-33 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2-R. lap long. seams 3-Riv. lap Diameter of rivet holes in long. seams 15/16 Pitch of rivets 4 1/2"
 Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 80.3 Working pressure of shell by
 rules 93 Size of manhole in shell 16"x12" Size of compensating ring 7"x1 1/2" x 9 1/2" No. and Description of Furnaces in each
 boiler 2 plain Material steel Outside diameter 35" Length of plain part top 67" Thickness of plates crown 9/16
 bottom 9/2" Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 118 Combustion chamber
 plates: Material steel Thickness: Sides 15/32 Back 17/32 Top 15/32 Bottom 5/8" Pitch of stays to ditto: Sides 9"x8" Back 9 1/2"x8 1/2"
 Top 9"x8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 93 Material of stays steel Diameter at
 smallest part .99 Area supported by each stay 74 Working pressure by rules 107 End plates in steam space: Material steel Thickness 3/4"
 Pitch of stays 14 1/2" to tubes How are stays secured nuts & 6 x 1/2 washers Working pressure by rules 103 Material of stays steel Diameter at smallest part 2.57
 Area supported by each stay 271 Working pressure by rules 96 Material of Front plates at bottom steel Thickness 3/4" Material of
 Lower back plate steel Thickness 3/4" Greatest pitch of stays 13"x8 1/2" Working pressure of plate by rules 165 Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2"x4 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 5 3/4"x1 1/8" Length as per rule 26 Distance apart 9" Number and pitch of Stays in each 2 @ 8"
 Working pressure by rules 94 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

The foregoing is a correct description,

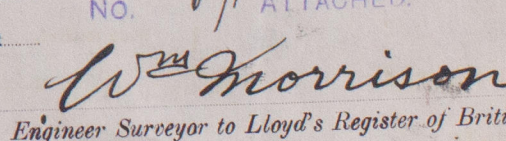
 Manufacturer.

Dates of Survey During progress of work in shops - - 1912. July 31. Dec. 2. Sept. 1. 10. 23. 25. 27. Is the approved plan of boiler forwarded herewith yes
 while building During erection on board vessel - - Sept. 3. 9. 16. Dec. 13. Jan 7. 12 Total No. of visits 10

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
It has been securely fixed on board on Main Deck. mounted & its safety
valves have been adjusted under steam.

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

MONTHLY A/c. SURVEY REQUEST
 NO. 191 ATTACHED.

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

Committee's Minute

Assigned

FRI. JAN. 17. 1913



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