

REPORT ON BOILERS.

No. 7468

Date of writing Report 27.7.12 When handed in at Local Office 27.7.12 Port Stockton-on-Tees
 No. in Survey held at Stockton-on-Tees Date, First Survey 27.7.12 Last Survey 20th July 1912
 Reg. Book. S/S Baghestan (Number of Visits 1) Gross 3691 Tons Net 2288
 Master Macfarlane Built at Sunderland By whom built Messrs Short Bros When built 1912
 Engines made at Sunderland By whom made J. Dickinson & Sons Ltd when made 1912
 Boilers made at Stockton By whom made Messrs Riley Bros (No. 4425) when made 1912
 Registered Horse Power _____ Owners Amrutan S. L. Co Port belonging to Sunderland

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons
 (Letter for record (S)) Total Heating Surface of Boilers 940 sq ft Is forced draft fitted ✓ No. and Description of Boilers One single ended Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 20.7.12
 No. of Certificate 4912 Can each boiler be worked separately ✓ Area of fire grate in each boiler 28.8 sq ft No. and Description of safety valves to each boiler no Area of each valve 4' 9" Pressure to which they are adjusted 183
 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 1' 6" Mean dia. of boilers 10'-0" Length 10'-0"
 Material of shell plates steel Thickness 27/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"
 Lap of plates or width of butt straps 13 1/2 x 27/32 5 Rints per pitch Per centages of strength of longitudinal joint rivets 87.1 Working pressure of shell by rules 182 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1" 9/16" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 36" Length of plain part top 77" Thickness of plates crown 23/32 bottom 13/16"
 Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 192 Combustion chamber plates: Material steel Thickness: Sides 21/32" Back 5/8" Top 21/32" Bottom 1" Pitch of stays to ditto: Sides 10 1/2 x 7 Back 8 x 8 1/2 Top 10 1/2 x 7 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays steel Diameter at smallest part 1 1/2" Area supported by each stay 73.5 Working pressure by rules 193 End plates in steam space: Material steel Thickness 1 1/2"
 Pitch of stays 21/19 x 14 How are stays secured nuts & washers Working pressure by rules 180 Material of stays steel Diameter at smallest part 5.05
 Area supported by each stay 262.5 Working pressure by rules 200 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 14 x 8 3/4 Working pressure of plate by rules 286 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/8 x 4 1/4 Material of tube plates steel Thickness: Front 1 1/2" Back 3/4" Mean pitch of stays 9 3/8" Pitch across wide water spaces 14" Working pressures by rules 207 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8" x 1 1/2" Length as per rule 27" Distance apart 10 1/2" Number and pitch of Stays in each 2 @ 7"
 Working pressure by rules 180 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 _____

FOR THE FOREGOING IS A CORRECT DESCRIPTION,
 RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey: During progress of work in shops - 1912. June 27, July 4, 6, 9, 12, 17, 20.
 while building: During erection on board vessel - Aug 15-21

Is the approved plan of boiler forwarded herewith yesTotal No. of visits 4/10

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.
Examined under steam & found satisfactory
J. J. Hunsley

Survey Fee ... £ 3-3-0 When applied for, 19
 Travelling Expenses (if any) £ 4 When received, 19

MONTHLY A/C SURVEY REQUEST ATTACHED.
Wm Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. SEP. 10. 1912

Assigned



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