

Rpt. 5a.

REPORT ON BOILERS.

No. 7975.
WED. JUN. 18. 1913

Received at London Office

Date of writing Report 16.6.13 1913 When handed in at Local Office 17.6.1913 Port of Middlesbrough
 No. in Survey held at Stockton-on-Tees Date, First Survey 31st Jan'y Last Survey 11th June 1913
 Reg. Book. Supp 5 on the new steel S/S "LUCELLUM". (Number of Visits 14) Gross 5784
 (S.S.N. 642) Tons Net 3233
 Master Built at Sunderland By whom built Sir Jas Laing & Son Ltd When built 1913
 Engines made at Sunderland By whom made George Blake Ltd (N^o 983) When made 1913
 Boilers made at Stockton By whom made Thosn Riley Bros Ltd (N^o 4473) When made 1913
 Registered Horse Power Owners H.E. Innes & Co Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Gurney & Son(Letter for record (5) Total Heating Surface of Boilers 1120 Is forced draft fitted no No. and Description ofBoilers One single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 11.6.13No. of Certificate 5092 Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 No. and Description ofsafety valves to each boiler Two direct spring Area of each valve 7.070" Pressure to which they are adjusted 105Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler noSmallest distance between boilers or uptakes and bunkers or woodwork 2.2 Inside Mean dia. of boilers 11'-0" Length 10'-6"Material of shell plates steel Thickness 19/32 Range of tensile strength 28-32 Are the shell plates welded or flanged noDescrip. of riveting: cir. seams 2 R. lap long. seams 2 B - 2 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5 1/2"Lap of plates or width of butt straps 9 x 19/32 Per centages of strength of longitudinal joint rivets 95 Working pressure of shell byrules 103 Size of manhole in shell 16" x 12" Size of compensating ring 7 x 19/32 No. and Description of Furnaces in eachboiler 2 plain Material steel Outside diameter 40" Length of plain part top 78" Thickness of plates crown 5/8"Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 105 Combustion chamberplates: Material steel Thickness: Sides 15/32 Back 15/32 Top 15/32 Bottom 13/16 Pitch of stays to ditto: Sides 7 1/8" x 7 1/8" Back 7 1/8" x 7 1/8"Top 7 1/8" x 7 1/8" If stays are fitted with nuts or riveted heads none Working pressure by rules 108 Material of stays steel Diameter atsmallest part 2.51 Area supported by each stay 62.02 Working pressure by rules 124 End plates in steam space: Material steel Thickness 25/32Pitch of stays 15 3/4" x 15 3/4" How are stays secured nuts & washers Working pressure by rules 107 Material of stays steel Diameter at smallest part 2.51Area supported by each stay 227 Working pressure by rules 115 Material of Front plates at bottom steel Thickness 25/32 Material ofLower back plate steel Thickness 25/32 Greatest pitch of stays 12 x 7 1/8" Working pressure of plate by rules 190 Diameter of tubes 3 1/4"Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 25/32 Back 5/8" Mean pitch of stays 10 1/8" Pitch across widewater spaces 13 1/2" Working pressures by rules 110 Girders to Chamber tops: Material steel Depth and thickness ofgirder at centre 7 x 1 1/4" Length as per rule 32" Distance apart 7 1/8" Number and pitch of Stays in each 3 @ 7 1/8"Working pressure by rules 107 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler workedseparately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivetholes 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 SURVEY REQUEST
NO. 612 ATTACHED.

FOR The foregoing is a correct description,

RILEY BROS. (BOILERMAKERS) LIMITED.

Manufacturer.

Dates of Survey During progress of 31st Jan'y Feb'y 4.8.27.28 Apr'l 2.25 May 16.17.24 Is the approved plan of boiler forwarded herewith yes
 while work in shops - - -
 building During erection on board vessel - - - 28.30 Jun'y 7.11. Jun 28 Jul 1.24. Total No. of visits 17

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 has been satisfactorily fixed on the main deck of the vessel and its safety valves adjusted, as above, adjusting washers: - both 15 3/8".

Survey Fee £ 3-15-0 When applied for, MONTHLY A/c.Travelling Expenses (if any) £ When received, 191

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

Committee's Minute CO. MIN. 1013

Assigned see minute on
Sl'd Rpt 25775



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