

REPORT ON BOILERS.

No. 20484.

JAN 12 1938

Received at London Office

Date of writing Report 1.12.1937 When handed in at Local Office 30th DEC. 1937 Port of GreenockNo. in Reg. Book. Greenock Survey held at Greenock Date, First Survey 14th JUNE. 1934. Last Survey 29th DECEMBER 1937.

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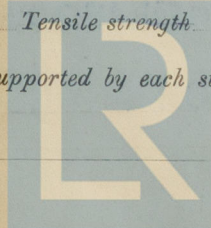
S/S "Jalakrishna"(Number of Visits ☒)

Gross 4990.61

Tons Net 3044.74

Master Greenock Built at P. Glasgow By whom built Lithgow Yard No. 904 When built 1937Engines made at Greenock By whom made John & Richard C. L. Engine No. 695 When made 1937Boilers made at ditto By whom made ditto Boiler No. 695 When made 1937Nominal Horse Power Greenock Owners Seindia S & C L. Port belonging to Bombay

MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel Thomas Walsley & Son, Bolville, Scotland & S. C. (Letter for Record R ☒)Total Heating Surface of Boilers 4563 Is forced draught fitted yes Coal or Oil fired CoalNo. and Description of Boilers 3 Single Ended Working Pressure 220Tested by hydraulic pressure to 380 Date of test 22.10.37 No. of Certificate 2124 Can each boiler be worked separately yesArea of Firegrate in each Boiler 63.25 No. and Description of safety valves to each boiler one Double SpringArea of each set of valves per boiler 13.4 Pressure to which they are adjusted 225 Are they fitted with easing gear yesIn 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 1-9" Is oil fuel carried in the double bottom under boilers NoSmallest distance between shell of boiler and tank top plating 2-0" Is the bottom of the boiler insulated yesLargest internal dia. of boilers 14.10 9/16" Length 11-6" Shell plates: Material S Tensile strength 29.33Thickness 1 7/16" Are the shell plates welded or flanged yes Description of riveting: circ. seams end OR inter.long. seams TRIDBS Diameter of rivet holes in circ. seams 1 15/32" Pitch of rivets 4.158"Percentage of strength of circ. end seams plate 64.6 Percentage of strength of circ. intermediate seam plate 84.3Percentage of strength of longitudinal joint plate 85.3 Working pressure of shell by Rules 221Thickness of butt straps outer 1 3/32" inner 1 7/32" No. and Description of Furnaces in each Boiler 3 Morions 9 cfMaterial S Tensile strength 26-30 Smallest outside diameter 3.9 1/2"Length of plain part top 3/4" Thickness of plates bottom 3/4" Description of longitudinal joint weldDimensions of stiffening rings on furnace or c.c. bottom yes Working pressure of furnace by Rules 243End plates in steam space: Material S Tensile strength 26.30 Thickness 1 1/32" Pitch of stays 21.18 3/4"How are stays secured D.N. Washers Working pressure by Rules 222Tube plates: Material front S Tensile strength 26.30 Thickness 7/8"Mean pitch of stay tubes in nests 8.5" Pitch across wide water spaces 13 1/2" Working pressure front 241Girders to combustion chamber tops: Material S Tensile strength 29.33 Depth and thickness of girder back 232at centre 10 x 3 1/4 (2) Length as per Rule 2.9 5/8" Distance apart 8 1/4" No. and pitch of staysin each 3 at 8" Working pressure by Rules 230 Combustion chamber plates: Material STensile strength 26.30 Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 3/16"Pitch of stays to ditto: Sides 8 7/8" Back 8.9" Top 8 7/8" Are stays fitted with nuts or riveted over NutsWorking pressure by Rules 229 Front plate at bottom: Material S Tensile strength 26.30Thickness 7/8" Lower back plate: Material S Tensile strength 26.30 Thickness 7/8"Pitch of stays at wide water space 14" Are stays fitted with nuts or riveted over NutsWorking Pressure 226 Main stays: Material S Tensile strength 28.32Diameter At body of stay 3 1/4" No. of threads per inch 6 Area supported by each stay 393.75Working pressure by Rules 236 Screw stays: Material Iron Tensile strength 21 1/2Diameter At turned off part 1 3/4" No. of threads per inch 9 Area supported by each stay 42Lloyd's Register
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Working pressure by Rules 248 Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, 1 7/8" . 2" ✓
 No. of threads per inch 9 ✓ Area supported by each stay 96 3/4" Working pressure by Rules 221
 Tubes: Material Iron ✓ External diameter { Plain } 2 1/2" ✓ Thickness { 9 WG 7/16" 5/8" 5/16" ✓ No. of threads per inch 9 ✓
 Pitch of tubes 3 5/8" + 3 11/16" ✓ Working pressure by Rules 241 Manhole compensation: Size of opening in
 shell plate 16 1/2" + 20 1/2" ✓ Section of compensating ring 3' - 1" + 2' 8 1/2" + 1' 5/32" No. of rivets and diameter of rivet holes 42 at 1 5/32" ✓
 Outer row rivet pitch at ends 10" ✓ Depth of flange if manhole flanged 3 1/2" ✓ Steam Dome: Material
 Tensile strength Thickness of shell Description of longitudinal joint
 Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets
 Internal diameter Working pressure by Rules Thickness of crown No. and diameter of
 stays Inner radius of crown Working pressure by Rules
 How connected to shell Size of doubling plate under dome Diameter of rivet holes and pitch
 of rivets in outer row in dome connection to shell
 Type of Superheater Manufacturers of { Tubes Steel forgings Steel castings
 Number of elements Material of tubes Internal diameter and thickness of tubes
 Material of headers Tensile strength Thickness Can the superheater be shut off and
 the boiler be worked separately Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
 Area of each safety valve Are the safety valves fitted with easing gear Working pressure as per
 Rules Pressure to which the safety valves are adjusted Hydraulic test pressure:
 tubes forgings and castings and after assembly in place Are drain cocks or
 valves fitted to free the superheater from water where necessary
 Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with

The foregoing is a correct description,
 For JOHN G. KINCAID & CO. LIMITED.
W. Carter Director. Manufacturer.

Dates of Survey { During progress of work in shops - - }
 while building { During erection on board vessel - - - }

SEE MACHINERY REPORT.

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)
 Total No. of visits

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. "S/S Galagauga" Rpt No 20151

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These Boilers have been built under Special Survey in accordance with the approved plans. The workmanship & material are of good quality. They have now been securely fitted on board.

Survey Fee charged on Machinery Report When applied for, 19
 Travelling Expenses (if any) £ : : When received, 19

W. Gordon-Mucllin
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 11 JAN 1938

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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