

REPORT ON BOILERS.

No. 20168

Received at London Office

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Date of writing Report 15.5 1936 When handed in at Local Office 18th JUNE 1936 Port of GrenadaNo. in Survey held at Grenada
Reg. Book.Date, First Survey 4th OCTOBER 1935 Last Survey 17-6-1936

on the

S/S "Jalayaunna"

(Number of Visits)

Gross 14980.99
Tons Net 3049.61Master L. J. J. Built at Port Glasgow By whom built Lithgow L^a Yard No. 882 When built 1936Engines made at Grenada By whom made John Hancock & Co^l Engine No. 677 When made 1936Boilers made at ditto By whom made ditto Boiler No. 677 When made 1936Nominal Horse Power Owners Seneca S & Co^l Port belonging to MoutayMULTITUBULAR BOILERS—MAIN, ~~AUXILIARY, OR DONKEY.~~Manufacturers of Steel Balvill Scottish & S. The Walmsley Son, Bargo & Co^l (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 7.5.36 No. of Certificate 2055 Can each boiler be worked separately YesArea of Firegrate in each Boiler 6325 # No. and Description of safety valves to each boiler one Double SpringArea of each set of valves per boiler {per Rule 13.4 # as fitted 14120 Pressure to which they are adjusted 225 Are they fitted with easing gear Yes ✓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 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 Yes ✓Largest internal dia. of boilers 14.10 9/16" Length 11-6" Shell plates: Material S Tensile strength 29.33 ✓Thickness 17/16" Are the shell plates welded or flanged Yes ✓ Description of riveting: circ. seams {end DR inter. —long. seams TRIDBS Diameter of rivet holes in {circ. seams 15/32" long. seams 17/16" Pitch of rivets { 4.158 9.812 ✓Percentage of strength of circ. end seams {plate 64.6 rivets 44.87 } Percentage of strength of circ. intermediate seam {plate 85.3 rivets 85.9 }Percentage of strength of longitudinal joint {plate 85.3 rivets 85.9 } Working pressure of shell by Rules 221Thickness of butt straps {outer 13/32" inner 17/32" } No. and Description of Furnaces in each Boiler 3 Monitors ✓Material S Tensile strength 26.30 ✓ Smallest outside diameter 3-9 1/2" ✓Length of plain part {top — bottom — } Thickness of plates {crown 3/4" bottom — } Description of longitudinal joint weld. ✓Dimensions of stiffening rings on furnace or c.c. bottom — Working pressure of furnace by Rules 243 ✓End plates in steam space: Material S Tensile strength 26.30 Thickness 1 1/32" Pitch of stays 21 1/8 3/4" ✓How are stays secured DN + Washers Working pressure by Rules 222 ✓Tube plates: Material {front S back S } Tensile strength { 26.30 } Thickness { 17/16" } ✓Mean pitch of stay tubes in nests 8"5 Pitch across wide water spaces 13 1/2" Working pressure {front 241 back 232 }Girders to combustion chamber tops: Material S Tensile strength 29.33 ✓ Depth and thickness of girderat centre 10 3/4 (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 S ✓Tensile strength 26.30 Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 13/16" ✓Pitch of stays to ditto: Sides 8 3/8 1/4" Back 8 3/8" Top 8 3/8 1/4" Are stays fitted with nuts or riveted over Nuts ✓Working pressure by Rules 229 ✓ Front plate at bottom: Material S Tensile strength 26.30 ✓Thickness 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 Nuts ✓Working Pressure 226 ✓ Main stays: Material S Tensile strength 28.32 ✓Diameter {At body of stay, 3 1/4" or Over threads — } No. of threads per inch 6 Area supported by each stay 393.75 # ✓Working pressure by Rules 236 ✓ Screw stays: Material Iron ✓ Tensile strength 21 1/2 000 ✓Diameter {At turned off part, 1 3/4" or Over threads — } No. of threads per inch 9 Area supported by each stay 72 # ✓

Working pressure by Rules **248** (Are the stays drilled at the outer ends **No** Margin stays: Diameter **17/8.2"**
 No. of threads per inch **9** Area supported by each stay **96 3/4"** Working pressure by Rules **221**
 Tubes: Material **Iron** External diameter **2 1/2"** Thickness **7/16 3/8 5/16"** No. of threads per inch **9**
 Pitch of tubes **3 5/8 x 3 1/16"** Working pressure by Rules **241** Manhole compensation: Size of opening in
 shell plate **16 1/2 x 20 1/2"** Section of compensating ring **3 1/2 x 2 8/12 x 1 5/12** No. of rivets and diameter of rivet holes **42, all 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
 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
 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 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,
 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 Jalaganga 4th Ref: 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. This Report accompanies that of the Machinery

Survey Fee **£1000 on Machinery Ref.**
 Travelling Expenses (if any) £

When applied for, 19
 When received, 19

W. Gordon-Mitchell

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW**

23 JUN 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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