

REPORT ON BOILERS.

No. 18966

Received at London Office

10 OCT 1928

Date of writing Report 15/9/28 When handed in at Local Office 6th October 1928 Port of Greenock

No. in Survey held at Greenock Date, First Survey 12th March 1928 Last Survey 5th October 1928

on the S/S "Rossington Court" (Number of Visits 17) Gross Tons Net Tons

Master Built at Glasgow By whom built Fairfield Shipbuilding Co. Ltd. Card No. 631 When built 1928

Engines made at Greenock By whom made John & Nuchod C.L. Engine No. 653 When made 1928

Boilers made at ditto By whom made ditto Boiler No. 651 When made 1928

Nominal Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN,

Manufacturers of Steel Colville, Scott & Co. Ltd. (Letter for Record R)

Total Heating Surface of Boilers 8601 Is forced draught fitted yes Oil fired Coal

No. and Description of Boilers 3 Single ended 3CR Working Pressure 180

Tested by hydraulic pressure to 320 Date of test 13.8.28 No. of Certificate 1841 (Part 1841) (Cutt. Stax) Can each boiler be worked separately yes

Area of Firegrate in each Boiler 63.25 No. and Description of safety valves to each boiler Double spring

Area of each set of valves per boiler { per Rule 18.4 as fitted 19.24 } Pressure to which they are adjusted 185 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 bankers or woodwork 6.0" Is oil fuel carried in the double bottom under boilers no

Smallest distance between shell of boiler and tank top plating 2.0" Is the bottom of the boiler insulated no

Largest internal dia. of boilers 15.478 Length 12.0" Shell plates: Material S Tensile strength 28-32

Thickness 19/32 Are the shell plates welded or flanged Description of riveting: circ. seams { end DR inter. }

Long. seams TRIDBS Diameter of rivet holes in { circ. seams 1.318 long. seams 1.516 } Pitch of rivets { 4.039 9/14 }

Percentage of strength of circ. end seams { plate 65.45 rivets 44 } Percentage of strength of circ. intermediate seam { plate 85.8 rivets 88 } Working pressure of shell by Rules 181

Percentage of strength of longitudinal joint { plate 88 rivets 89.2 combined }

Thickness of butt straps { outer 1" inner 1/8" } No. and Description of Furnaces in each Boiler 3 Delightous 3cf.

Material S Tensile strength 26-30 Smallest outside diameter 3-113/16"

Length of plain part { top bottom } Thickness of plates { crown 19/32 bottom } Description of longitudinal joint weld

Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 183

End plates in steam space: Material S Tensile strength 26.30 Thickness 1/4" Pitch of stays 21/2" x 19 1/2"

How are stays secured DNOW Working pressure by Rules 186

Tube plates: Material { front S back S } Tensile strength { 26.30 } Thickness { 15/16" 3/4" }

Mean pitch of stay tubes in nests 9.345 Pitch across wide water spaces 13 1/2" Working pressure { front 183 back 192 }

Girders to combustion chamber tops: Material S Tensile strength 28-32 Depth and thickness of girder

at centre 10" x 3/4" (2) Length as per Rule 3-1.56 Distance apart 9 1/8" No. and pitch of stays

in each 3 at 9" Working pressure by Rules 182 Combustion chamber plates: Material S

Tensile strength 26.30 Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 25/32

Pitch of stays to ditto: Sides 9" x 9" Back 9" x 9" Top 9" x 9 1/8" Are stays fitted with nuts or riveted over nuts

Working pressure by Rules 185 Front plate at bottom: Material S Tensile strength 26.30

Thickness 15/16" Lower back plate: Material S Tensile strength 26.30 Thickness 25/32

Pitch of stays at wide water space 13 3/4" Are stays fitted with nuts or riveted over nuts

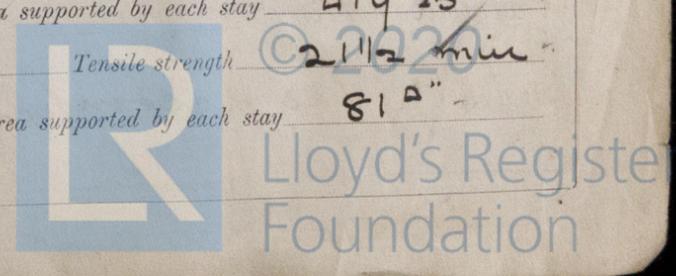
Working Pressure 183 Main stays: Material S Tensile strength 28-32

Diameter { At body of stay, 3 1/4" x 3 1/2" or Over threads } No. of threads per inch 6 Area supported by each stay 419.25

Working pressure by Rules 189 Screw stays: Material 9non Tensile strength 21 1/2 min

Diameter { At turned off part, 1 5/8" or Over threads } No. of threads per inch 9 Area supported by each stay 81.5"

W450-0198



Working pressure by Rules 189 Are the stays drilled at the outer ends 910 Margin stays: Diameter ^{At turned off part,} 13 1/4" _{or} ^{Over threads} 13 1/4" ✓
 No. of threads per inch 9 Area supported by each stay 90.125 Working pressure by Rules 181
 Tubes: Material 9100. External diameter ^{Plain} 2 1/2" ✓ Thickness ^{9 WG} 3/8" ✓ ^{5/16"} No. of threads per inch 9 ✓
 Pitch of tubes 3 3/4" + 3 3/4" Working pressure by Rules 184 Manhole compensation: Size of opening in
 shell plate 16 1/2" x 20 1/2" ✓ Section of compensating ring 3' 0 1/4" + 2' 4 1/4" + 1' 9 3/4" No. of rivets and diameter of rivet holes 38 at 1 5/16" ✓
 Outer row rivet pitch at ends 9 1/4" ✓ Depth of flange if manhole flanged 3 ✓ 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 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, 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 23 inclusive for boilers been complied with yes

FOR JOHN G. KINGAID & COY. LIMITED
 The foregoing is a correct description,

W. C. Carter Manufacturer.
 DIRECTOR

Dates of Survey ^{During progress of} _{work in shops - -} Are the approved plans of boiler and superheater forwarded herewith
 while ^{During erection on} _{board vessel - -} (If not state date of approval.)
 building *See Machinery Report.* Total No. of visits

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

These Boilers have been built under special Survey in accordance with the approved plan & the workmanship and material are of good quality. They are now securely fitted on board. This Report is accompanied by that of the Machinery.

Survey Fee Charged on Machinery Report : When applied for, 192
 Expenses (if any) : When received, 192

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

Committee's Minute GLASGOW 9 OCT 1928

TUE. 6 NOV 1928

TUE. 12 MAR 1929

Assigned See accompanying mach^y report



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