

REPORT ON BOILERS.

No. 20281.

Received at London Office

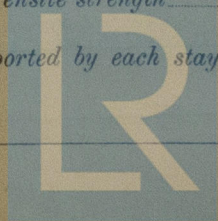
16 DEC 1936

9 Date of writing Report 26. 10 1936 When handed in at Local Office 10th Dec. 1936. Port of Greenock
 Date, First Survey 19th December 1935 Last Survey 9th December 1936
 No. in Survey held at Greenock
 Book. M/S "British Triumph"
 on the
 Built at Glasgow By whom built Littlejohn & Co. Yard No. 886 When built 1936
 Engines made at Greenock By whom made John Littlejohn & Co. Engine No. 1794 When made 1936
 Boilers made at ditto By whom made ditto Boiler No. 1794 When made 1936
 Owners British Tanker Co. Ltd Port belonging to London

MULTITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Colville & Co. Glasgow (Letter for Record S)
 Total Heating Surface of Boilers 1494 # Is forced draught fitted Yes Coal or Oil fired Oil
 No. and Description of Boilers One Single Ended Working Pressure 150
 Tested by hydraulic pressure to 275 Date of test 14-6-36 No. of Certificate 2060 Can each boiler be worked separately Yes
 Area of Firegrate in each Boiler 62.4 sq ft No. and Description of safety valves to each boiler Cochran High Lift
 Area of each set of valves per boiler (per Rule 5.64 sq ft as fitted 6.283 sq ft Pressure to which they are adjusted 155 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 1-8" Is oil fuel carried in the double bottom under boilers No
 Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated Yes
 Largest internal dia. of boilers 11'-4 7/16" Length 11'-6" Shell plates: Material S Tensile strength 29.33
 Thickness 2 5/32" Are the shell plates welded or flanged Description of riveting: circ. seams end DR inter. S
 No. of seams TR & DBS Diameter of rivet holes in (circ. seams 15/16" long. seams 24/32" Pitch of rivets 6" 5/32"
 Percentage of strength of circ. end seams (plate 69.5 rivets 45.5) Percentage of strength of circ. intermediate seam (plate 86.2 rivets 86.5)
 Percentage of strength of longitudinal joint (plate 86.5 rivets 89.4) Working pressure of shell by Rules 153
 Thickness of butt straps (outer 5/8" inner 3/4") No. and Description of Furnaces in each Boiler 2 Drightrons
 Material S Tensile strength 26-30 Smallest outside diameter 2'-11 7/8"
 Length of plain part (top bottom) Thickness of plates (crown bottom) 7/16" Description of longitudinal joint Weld
 Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules 174
 End plates in steam space: Material S Tensile strength 26-30 Thickness 15/16" Pitch of stays 16" 15"
 How are stays secured DN + Washers Working pressure by Rules 164 7/8"
 The plates: Material (front back) S Tensile strength 26-30 Thickness 11/16"
 Can pitch of stay tubes in nests 9" 3/4" Pitch across wide water spaces 13 1/2" Working pressure (front 194 back 182)
 Orders to combustion chamber tops: Material S Tensile strength 29.33 Depth and thickness of girder
 Centre 8 1/4" x 3 1/4" (2) Length as per Rule 34 5/8" Distance apart 8 3/8" No. and pitch of stays
 Each 3 at 8 3/4" Working pressure by Rules 169 Combustion chamber plates: Material S
 Tensile strength 26-30 Thickness: Sides 5/8" Back 11/16" Top 5/8" Bottom 11/16"
 Pitch of stays to ditto: Sides 8 3/4" x 8" Back 8" x 8 1/4" Top 8 3/4" x 8 3/8" Are stays fitted with nuts or riveted over Nuts
 Working pressure by Rules 151 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 154 Main stays: Material S Tensile strength 28-32
 Diameter (At body of stay, or Over threads) 2 1/4" No. of threads per inch 6 Area supported by each stay 240 sq in
 Working pressure by Rules 149 Screw stays: Material S Tensile strength 26-30
 Diameter (At turned off part, or Over threads) 1 3/8" x 1 1/2" No. of threads per inch 6 Area supported by each stay 66 sq in

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Working pressure by Rules 153 ✓ Are the stays drilled at the outer ends No ✓ Margin stays: Diameter 1 5/8" ✓
 No. of threads per inch 9 Area supported by each stay 90 3/4" ✓ Working pressure by Rules 166
 Tubes: Material Iron External diameter 2 1/2" ✓ Thickness 10 WG 1/4 5/16" ✓ No. of threads per inch 9 ✓
 Pitch of tubes 33 1/4" 33 1/4" ✓ Working pressure by Rules 173 ✓ Manhole compensation: Size of opening in
 shell plate 16 x 20" Section of compensating ring 2-8 1/2" x 2 1/2" x 1/16" ✓ No. of rivets and diameter of rivet holes 35 at 1 1/16" ✓
 Outer row rivet pitch at ends 8 ✓ Depth of flange if manhole flanged 3 1/4" ✓ 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
 Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ Rivets _____ 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 _____ Steel castings _____ 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.
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 yes
 (If not state date of approval.)
 Total No. of visits _____

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under
Special Survey in accordance with the approved plans & the
workmanship & material are of good quality. It is now securely
fitted on board.
This Report is submitted that of the Machinery

Survey Fee £ 100
 Travelling Expenses (if any) £ 10

When applied for, 19
 When received, 19

W. Carter Director. Manufacturer.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 15 DEC 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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