

REPORT ON BOILERS.

L.An.Bl.r.Rpt.
No. L.A. 48

Received at London Office 8 SEP 1942

Port of LOS ANGELES, CALIFORNIA

Rpt. 5a.
Date of writing Report 19... When handed in at London Office 19...
No. in Reg. Book. Survey held at LOS ANGELES, CALIFORNIA Date, First Survey 29th March Last Survey 17th April 19 42
on the BRITISH GOVERNMENT FREIGHTERS S/S "Ocean Viscount" (Number of Visits 14) Tons {Gross 7174 Net 4272
built at Richmond, Calif. By whom built Todd-California Shipbuilding Division of the Permanente Metals Corporation Yard No. 23 When built 1942
Engines made at Hamilton, Ohio. By whom made General Machinery Corp. Engine No. 6717 When made 1942
Boilers made at Los Angeles, Calif. By whom made Western Pipe & Steel Co. Boiler No. 48 L.A. When made 1942
Nominal Horse Power 505 Owners British Government Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Lukens Steel Co., Bethlehem Steel Co., Taylor Pipe & Forge Works (Letter for Record S)
Total Heating Surface of Boilers (1) 2380 sq. ft. Is forced draught fitted Yes Coal fired Yes
No. and Description of Boilers one (1) Scotch Type Working Pressure 220 lbs.
Tested by hydraulic pressure to 380 lbs. Date of test 17th Apr. '42 No. of Certificate 48 L.A. Can each boiler be worked separately
Area of Firegrate in each boiler 43 sq. ft. No. and Description of Safety valves to each boiler
Area of each set of valves per boiler {per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear
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 Is oil fuel carried in the double bottom under boilers
Smallest distance between shell of boiler and tank top plating Is the bottom of the boiler insulated
Largest internal diameter of boilers 14'6³/₁₆" Length 11'6¹⁵/₁₆" Shell plates: Material Steel Tensile strength 65000/75000
Thickness 1¹³/₃₂" Are the shell plates welded or flanged No Description of riveting: circ. seams {end Double zigzag inter.
Long. seams T.R.D.B.S. Diameter of rivet holes in {circ. seams 1¹/₂" Pitch of rivets {4.25" 10" None fitted
Percentage of strength of circ. end seams {plate 64.7 rivets 47 Percentage of strength of circ. intermediate seam {plate None fitted rivets None fitted
Percentage of strength of longitudinal joint {plate 85.0 rivets 93.4 combined 88.8
Thickness of butt straps {outer 1³/₃₂" inner 1⁷/₃₂" No. and Description of Furnaces in each Boiler Three (3) Morrison Type
Material Steel Tensile strength 58000/68000 Smallest outside diameter 3'5⁹/₁₆"
Length of plain part {top 9³/₁₆" Thickness of plates {crown 2¹/₃₂" bottom 2¹/₃₂" Description of longitudinal joint Welded
Dimensions of stiffening rings on furnace or c.c. bottom None fitted
Stays in steam space: Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂" RD 1¹/₃₂" Pitch of stays 21¹/₄" x 21"
How are stays secured Double Nuts
Tube plates: Material {front Steel Tensile strength 58000/68000 Thickness {1¹/₃₂" F back Steel Tensile strength 58000/68000 Thickness {1³/₁₆" B
Mean pitch of stay tubes in nests 9⁷/₁₆" Pitch across wide water spaces 14¹/₂" x 8¹/₄"
Orders to combustion chamber tops: Material Steel Tensile strength 65000/75000 Depth and Thickness of girder
centre 10¹/₄"-2 x 7⁷/₈" Length as per Rule 2'10" Distance apart 11" No. and pitch of stays
each 3 x 7⁵/₈" Combustion chamber plates: Material Steel
Tensile strength 58000/68000 Thickness: Sides 2⁵/₃₂" Back 2³/₃₂" Top 2⁵/₃₂" Bottom 2⁵/₃₂"
Pitch of stays to ditto: Sides 9" x 10⁷/₃₂" Back 9" x 9" Top 11" x 7⁵/₈" Are stays fitted with nuts or riveted over Nuts
Front plate at bottom: Material Steel Tensile strength 58000/68000
Thickness 1¹/₃₂" Lower back plate: Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂"
Pitch of stays at wide water space 15" x 9" Are stays fitted with nuts or riveted over Nuts
Shipping stays: Material Steel Tensile strength 65000/75000
Diameter {At body of stay 3¹/₂" No. of threads per inch Six (6) or Over threads 3³/₄"
New stays: Material Steel Tensile strength 58000/68000
Diameter {At turned off part 1⁷/₈" 1³/₄" No. of threads per inch Nine (9) or Over threads

Are the stays drilled at the outer ends No Margin stays: Diameter 2 1/8" 2" { At turned off part, or Over threads

No. of threads per inch Nine (9)

Tubes: Material Steel Sol. Dr. External diameter { Plain 3" Stay 3" Thickness { .165" 3/8" 5/16" No. of threads per inch Nine (9)

Pitch of tubes 4 1/4" x 4 1/8" Manhole compensation: Size of opening in shell plate _____ Section of compensating ring _____ No. of rivets and diameter of rivet holes _____

Outer row rivet pitch at ends _____ Depth of flange if manhole flanged _____ 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 _____ Thickness of crown _____ No. and diameter of stays _____ Inner radius of crown _____

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 _____

Pressure to which the safety valves are adjusted _____ Hydraulic test pressure tubes _____ forgings and castings _____ and after assembly in place _____ Are drain cocks of 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 Yes

The foregoing is a correct description,
WESTERN PIPE & STEEL COMPANY OF CALIFORNIA
by J. Anderson ASST. SECRETARY

Dates of Survey { During progress of work in shops - - } 29th March to 17th Apr. 1942 Are the approved plans of boiler and superheater forwarded herewith Approved
{ while building { During erection on board vessel - - - } Total No. of visits 14 (If not state date of approval.) April 28, 1941

Is this Boiler a duplicate of a previous case Yes If so, state Vessel's name and Report No. L.An.Blr.Rpt.No.1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boiler, so far as stated above, has been built under Special Survey in accordance with the Rules and approved plans, and the workmanship and material is good. It has been satisfactorily tested to 380 lbs. per square inch by hydraulic pressure in the presence of the undersigned. It has been forwarded to Richmond, California, to be fitted on board, and when this has been done in accordance with the Rules, the vessel will be eligible, in my opinion, to receive the notation:-

*LMC with date, and 220 lbs. and F.D. in the Register Book.

Survey Fee \$ \$108.61 } When applied for, _____ 19
Travelling Expenses (if any) £ : : } When received, _____ 19

James Anderson
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute NEW YORK AUG 26 1942

Assigned See Richmond Rpt. No. 23

A14



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