

REPORT ON BOILERS.

L.An.Blr.Rpt.
No. L.A. 49

-8 SEP 1942

Received at London Office

Port of LOS ANGELES, CALIFORNIA

Survey held at LOS ANGELES, CALIFORNIA Date, First Survey 1st April Last Survey 28th April 19 42
on the BRITISH GOVERNMENT FREIGHTERS *S/S "Ocean Verity"* (Number of Visits 16) Tons { Gross 7174
Net 4274
By whom built Todd-California Shipbuilding Division Yard No. 24 When built 1942
By whom made General Machinery Corp. Engine No. 6719 When made 1942
By whom made Western Pipe & Steel Co. Boiler No. 49 L.A. When made 1942
Owners British Government Port belonging to London

LTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel Lukens Steel Co., Bethlehem Steel Co., Taylor Pipe & Forge Works (Letter for Record S)
Heating Surface of Boilers (1) 2380 sq. ft. Is forced draught fitted Yes Coal or oil fired Yes
Description of Boilers one (1) Scotch Type Working Pressure 220 lbs.
Are drain by hydraulic pressure to 380 lbs. Date of test 27th Apr. 1942 No. of Certificate 49 L.A. Can each boiler be worked separately
Firegrate in each boiler 43 sq. ft. No. and Description of Safety valves to each boiler
each set of valves per boiler { per Rule
as fitted Pressure to which they are adjusted Are they fitted with easing gear
of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Man distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers
distance between shell of boiler and tank top plating Is the bottom of the boiler insulated
Internal diameter of boilers 14'6³/₁₆" Length 11'6¹⁵/₁₆" Shell plates: Material Steel Tensile strength 65000/75000
1'13³/₃₂" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double zigzag
inter. 4.25"
T.R.D.B.S. Diameter of rivet holes in { circ. seams 1¹/₂" Pitch of rivets { 10"
long. seams 1¹/₂" { None fitted
Percentage of strength of circ. intermediate seam { plate None fitted
rivets None fitted
of strength of circ. end seams { plate 47
rivets 85.0
of strength of longitudinal joint { plate 93.4
combined 88.8
of butt straps { outer 1³/₃₂" No. and Description of Furnaces in each Boiler Three (3) Morrison Type
inner 1⁷/₃₂" Steel Tensile strength 58000/68000 Smallest outside diameter 3'5⁹/₁₆"
plain part { top 9³/₁₆" Thickness of plates { crown 21¹/₃₂
bottom 9³/₁₆" { bottom 21¹/₃₂ Description of longitudinal joint Welded
of stiffening rings on furnace or c.c. bottom None fitted
Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂" RD 1¹/₃₂" Pitch of stays 21¹/₄" x 21"
Double Nuts
Material { front Steel Tensile strength 58000/68000 Thickness 1¹/₃₂" F
back Steel Tensile strength 58000/68000 Thickness 1³/₁₆" B
Pitch across wide water spaces 14¹/₂" x 8¹/₄"
to combustion chamber tops: Material Steel Tensile strength 65000/75000 Depth and Thickness of girder
0'1⁴/₄"-2 x 7⁷/₈" Length as per Rule 2' 10" Distance apart 11" No. and pitch of stays
3 x 7⁵/₈" Combustion chamber plates: Material Steel
Thickness: Sides 25²⁵/₃₂" Back 23²³/₃₂" Top 25²⁵/₃₂" Bottom 25²⁵/₃₂"
Sides 9" x 10⁷/₃₂" Back 9" x 9" Top 11" x 7⁵/₈" Are stays fitted with nuts or riveted over Nuts
Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂"
Lower back plate: Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂"
15" x 9" Are stays fitted with nuts or riveted over Nuts
Material Steel Tensile strength 65000/75000
At body of stay, 3¹/₂"
Over threads 3³/₄" No. of threads per inch Six (6)
Material Steel Tensile strength 58000/68000
At turned off part, 1⁷/₈" 1³/₄" No. of threads per inch Nine (9)
Over threads 1⁷/₈" 1³/₄"



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

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

Pitch of tubes 4 1/4" x 4 1/8" Manhole compensation: Size of opening

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 { Plate Rivets

Diameter of rivet holes Pitch of rivets Percentage of strength of joint { Plate Rivets

Internal diameter Thickness of crown No. and diameter of rivets

stays Inner radius of crown Diameter of rivet holes

How connected to shell Size of doubling plate under dome

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 from the boiler

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 draining by hydraulic

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. M. Muelick ASST. SECRETARY

Dates of Survey { During progress of work in shops - - 1st April to 28th April, 1942 Are the approved plans of boiler and superheater forwarded herewith Yes
while building { During erection on board vessel - - - April 28, 1941 (If not state date of approval.)

Total No. of visits 16

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

Committee's Minute NEW YORK AUG 26 1942
Assigned See Richmond Rpt. No. 24

James M. Muelick
Engineer Surveyor to Lloyd's Register of



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