

REPORT ON BOILERS.

L.An. BLR. Rpt.
No. 23 L.A.

Received at London Office 19 MAY 1942
When handed in at London Office 19
Port of LOS ANGELES, CALIFORNIA
Survey held at LOS ANGELES, CALIFORNIA Date, First Survey 7th Sept. Last Survey 31st Oct. 1941
on the BRITISH GOVERNMENT FREIGHTERS (Number of Visits 21)
By whom built Yard No. When built
By whom made Engine No. When made
made at Los Angeles, Calif. By whom made Western Pipe & Steel Co. Boiler No. 23 L.A. When made 1941
Horse Power Owners Port belonging to

TUBULAR 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 driven by hydraulic pressure to 380 lbs. Date of test 31st Oct. 1941 of Certificate 23 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 Pressure to which they are adjusted Are they fitted with easing gear
Description of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Minimum distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers
Minimum 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
1¹³/₃₂" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double zigzag
inter. ----
T.R.D.B.S. Diameter of rivet holes in { circ. seams 1¹/₂" Pitch of rivets { 4.24"
long. seams 1¹/₂" 10"
of strength of circ. end seams { plate 64.7 Percentage of strength of circ. intermediate seam { plate None fitted
rivets 47 rivets None fitted
of strength of longitudinal joint { plate 85.0
rivets 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 2¹/₃₂" Description of longitudinal joint Welded
bottom 9³/₁₆" bottom 2¹/₃₂"
of stiffening rings on furnace or c.c. bottom None fitted
in steam space: Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂" R.D. 1¹/₃₂" Pitch of stays 24¹/₄" x 21"
stays secured Double Nuts
stays: Material { front Steel Tensile strength { 58000/68000 Thickness { 1¹/₃₂" F
back Steel 58000/68000 1³/₁₆" B
of stay tubes in nests 9⁷/₁₆" Pitch across wide water spaces 14¹/₂" x 8¹/₄"
combustion chamber tops: Material Steel Tensile strength 65000/75000 Depth and Thickness of girder
10¹/₄"-2x7⁷/₈" 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 25³/₃₂" Back 23³/₃₂" Top 25³/₃₂" Bottom 25³/₃₂"
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
at bottom: Material Steel Tensile strength 58000/68000
1¹/₃₂" Lower back plate: Material Steel Tensile strength 58000/68000 Thickness 1¹/₃₂"
stays at wide water space 18" x 10" 15" x 9" Are stays fitted with nuts or riveted over Nuts
stays: Material Steel Tensile strength 65000/75000
At body of stay 3¹/₂" No. of threads per inch Six (6)
Over threads 3³/₄"
stays: 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"

5-14 23.L.A.

12

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

No. of threads per inch None (9)

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

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

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 { Fials Rivets

Internal diameter Thickness of crown No. and

stays Inner radius of crown

How connected to shell Size of doubling plate under dome Diameter of rivet holes

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

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 tes

tubes forgings and castings and after assembly in place Are drao

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, for m
WESTERN PIPE & STEEL COMPANY OF CALIFORNIA
by J. M. Neeseh
ASST. SECRETARY

Dates of Survey { During progress of work in shops - - 7th Sept. to 31st Oct. 1941 Are the approved plans of boiler and superheater forwarded herewith A
while building { During erection on board vessel - - - Total No. of visits 21

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
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 sq. in. 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 ... £ 20.00 : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute NEW YORK MAR 18 1942

Assigned See Richmond Rpt. No. 9.

James A. Anderson
Engineer Surveyor to Lloyd's Register of



© 2020

Lloyd's Register
Foundation