

# REPORT ON BOILERS.

L.An. BLR. Rpt.  
No. 24 L.A.

-9 MAY 1942

Received at London Office

Report No. 19 When handed in at London Office 19 Port of LOS ANGELES, CALIFORNIA

Survey held at LOS ANGELES, CALIFORNIA Date, First Survey 10th Sept. Last Survey 31st Oct. 19 41

on the BRITISH GOVERNMENT FREIGHTERS (Number of Visits 20) Tons { Gross Net

By whom built Yard No. When built

No. and ide at By whom made Engine No. When made

f rivet holde at Los Angeles, Calif. By whom made Western Pipe & Steel Co. Boiler No. 24 L.A. When made 1941

orse Power Owners Port belonging to

## TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

rs of Steel Lukens Steel Co., Bethlehem Steel Co., Taylor Pipe & Forge Works (Letter for Record S)

ing 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

Are dry hydraulic pressure to 380 lbs. Date of test 30th Oct. No. of Certificate 24 L.A. Can each boiler be worked separately

regrate in each boiler 43 Sq. Ft. No. and Description of Safety valves to each boiler

h set of valves per boiler { per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear

ription donkey boilers, state whether steam from main boilers can enter the donkey boiler

Mo tance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

tance between shell of boiler and tank top plating Is the bottom of the boiler insulated

ewith A rnal diameter of boilers 14' 6 3/16" Length 11' 6 15/16" Shell plates: Material Steel Tensile strength 65000/75000

1 13/32" Are the shell plates welded or flanged No Description of riveting: circ. seams { end Double zigzag inter. 4.24"

s T.R.D.B.S. Diameter of rivet holes in { circ. seams 1 1/2" Pitch of rivets { 10" long. seams 1 1/2"

of strength of circ. end seams { plate 64.7 rivets 47 Percentage of strength of circ. intermediate seam { plate None fitted rivets None fitted

ated a of strength of longitudinal joint { plate 85.0 rivets 93.4 combined 88.8

and the of butt straps { outer 1 3/32" inner 1 7/32" No. and Description of Furnaces in each Boiler Three (3) Morrison Type

hmond Steel Tensile strength 58000/68000 Smallest outside diameter 3' 5 9/16"

ules, plain part { top 9 3/16" Thickness of plates { crown 21/32" Description of longitudinal joint Welded bottom 9 3/16" bottom 21/32"

of stiffening rings on furnace or c.c. bottom None fitted

s in steam space: Material Steel Tensile strength 58000/68000 Thickness 1 1/32" R.D. 1 1/32" Pitch of stays 24 1/4" x 21"

tays secured Double Nuts

tes: Material { front Steel Tensile strength { 58000/68000 Thickness { 1 1/32" F back Steel 58000/68000 1 3/16" B

of stay tubes in nests 9 7/16" 9.7 Pitch across wide water spaces 14 1/2" x 8 1/4"

o combustion chamber tops: Material Steel Tensile strength 65000/75000 Depth and Thickness of girder

10 1/4" - 2 x 7/8" Length as per Rule 2' 10" Distance apart 11" No. and pitch of stays

3 x 7 5/8" Combustion chamber plates: Material Steel

ngth 58000/68000 Thickness: Sides 25/32" Back 23/32" Top 25/32" Bottom 25/32"

tays to ditto: Sides 9" x 10 7/32" Back 9" x 9" Top 11" x 7 5/8" Are stays fitted with nuts or riveted over Nuts

te at bottom: Material Steel Tensile strength 58000/68000

1 1/32" Lower back plate: Material Steel Tensile strength 58000/68000 Thickness 1 1/32"

tays at wide water space 18" x 10" 15" x 9" Are stays fitted with nuts or riveted over Nuts

ter of s: Material Steel Tensile strength 65000/75000

At body of stay 3 1/2" No. of threads per inch Six (6)

Over threads 3 3/4"

tays: Material Steel Tensile strength 58000/68000

At turned off part 1 7/8" 1 3/4" No. of threads per inch Nine (9)

Over threads 1 7/8" 1 3/4"



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Are the stays drilled at the outer ends No

No. of threads per inch Nine (9)

Margin stays: Diameter { At turned off part, or Over threads. 2 1/8"

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

Pitch of tubes 4 1/4" x 4 1/8"

Manhole compensation: Size

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

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

tubes forgings and castings and after assembly in place

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. Muelich ASST. SECRETARY

Dates of Survey { During progress of work in shops - - 10th Sept. to 31st Oct. 1941  
while building { During erection on board vessel - - -  
The approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 28th Apr

Total No. of visits 20

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 : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

James Anderson  
Engineer Surveyor to Lloyd's Register of

Committee's Minute NEW YORK MAR 18 1942

Assigned See Richmond Rpt. No. 9.