

## REPORT ON WATER TUBE BOILERS.

No. 6241.

25 FEB 1949

Received at London Office

Report Nov. 25th 1948. When handed in at Local Office Nov. 25, 1948. Port of Newport News, Va.  
Survey held at Newport News, Va. Date, First Survey July 9th, 1948 Last Survey Oct. 19th 1948.  
On the S/S "OAKLEY L. ALEXANDER" (Ex "Laconia Victory") (Number of Visits 27) Tons { Gross 7607  
Net 4551.  
Baltimore, Md. By whom built Bethlehem Fairfield Ship. When built 1945.  
at Pittsburgh, Pa. By whom made Westinghouse Electric Mfg. Co. When made 1945.  
at Barberton, Ohio. By whom made Babcock & Wilcox Co. When made 1948.  
Power 1152 Owners Pocahontas Steamship Co. Port belonging to Wilmington, Del.

TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Carnegie Steel Co., &amp; Worth Steel Co.

Installation of plan May 10th, 1948. Number and Description or Type  
W.T. Single drum, sectional headers design Working Pressure 525 Lbs. Tested by Hydraulic Pressure to 788 Lbs. Date of Test Oct. 12, 1948.

Can each boiler be worked separately Yes Total Heating Surface of Boilers 8245 sq. ft.

Light fitted Yes Area of fire grate (coal) in each Boiler 127 sq. feet.

No. and description of safety valves on

Two single consolidated. Area of each set of valves per boiler { per rule 201 1/2 sq. in. Pressure to which they

525 Lbs. p.s.i. Are they fitted with easing gear Yes. In case of donkey boilers state whether steam from main boilers can enter

Smallest distance between boilers or uptakes and bunkers or woodwork not close Height of boiler 20'-11"

Length 16'-7" x 16'-4" & water Steam Drums: Number in each boiler One Inside diameter 47.3/4"

plates Tube sheet 1.15/16" Wrapper 15/16" Range of Tensile Strength 70000/82000 Lbs. sq. inch Are drum shell plates welded

welded If fusion welded, state name of welding firm Babcock & Wilcox Co. Have all the requirements of the rules

vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —

rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

Plate — Rivet — Diameter of tube holes in drum 4.1/32" & 4.17/32" of tube holes 7"

Strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength 70000/82000 Lbs. sq. in.

plates 1.11/16 Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number

— Inside Diameter — Thickness of plates — Range of tensile strength — Are drum shell plates

anged — If fusion welded, state name of welding firm — Have all the requirements of the rules

vessels been complied with — Description of riveting:—Cir. seams — long. seam —

rivet holes in long. seams — Pitch of rivets — Thickness of straps —

Strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum — Pitch of tube holes —

Strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of Tensile strength —

plates — Radius or how stayed — Size of manhole or handhole —

Sections:—Number 21 Material forged steel Thickness 19/32" Tested by Hydraulic Pressure to 788 Lbs. sq. in.

diameter 4", 3 1/4", 3 1/2", 2", 1 1/2" Thickness .203", .25", .203", .135", .095" Number 42, 4, 26, 1268, 1364 Steam Dome or Collector:—Description of

— Inside diameter — Thickness of shell plates — Range of tensile

— Description of longitudinal joint — If fusion welded, state name of welding

— Have all the requirements of the rules for Class I vessels been complied with Yes Diameter of rivet holes —

Thickness of straps — Percentage strength of long. joint — Plate — Rivet —

End Plates:—Range of tensile strength — Thickness — Radius or how stayed —

HEATER. Drums or Headers:—Number in each boiler Two square headers. Inside Diameter 5 1/2" x 5 1/2"

1" Material O.H. Steel Range of tensile strength — Are drum shell plates welded

forged If fusion welded, state name of welding firm — Have all the requirements of the rules

vessels been complied with Yes Description of riveting:—Cir. seams — long. seams —

rivet holes in long. seams — Pitch of rivets — Thickness of straps — Percentage strength of

Plate — Rivet — Diameter of tube holes in drum 1 1/4" Pitch of tube holes 1.3/4" Percentage strength of

in way of tubes Drum Heads or Ends:— Thickness — Range of tensile strength —

Radius or how stayed — Size of manhole or handhole 4.9/16" x 5.1/2" Number, diameter, and thickness of tubes 231-1 1/4" x 120"

Hydraulic Pressure to 788 Lbs. p.s.i. Date of Test October 12, 1948 Is a safety valve fitted to ~~xxxxxx~~ of the superheater ~~xxxx~~

~~xxxxxx~~ Yes No. and description of Safety Valves One single consolidated at outlet Area of each set

1.7671 sq. ins. = 101 1/2 Pressure to which they are adjusted 484 Lbs. p.s.i. Is easing gear fitted Yes

ear. Has the spare gear required by the rules been supplied Yes.

SV area = 7.66 sq. ft. 5.301 = 69% 7.66

3 @ 1 1/2" I.H.L. = 5.301

The foregoing is a correct description,

Manufacturer.

During progress of work in shops — Is the approved plan of boiler forwarded herewith Plan for-

During erection on board vessel — July 9, 13, 14, 19, 21, 23, 28, 30, Aug. 3, 4, Total No. of visits

11, 12, 18, 24, Sept. 2, 10, 14, 16, 24, 28, Oct. 1, 4, 7, 8, 12, 13, 19.

a duplicate of a previous case Yes If so, state vessel's name and report No. "VICTORY" Type vessels built for

U.S. Maritime Commission.

AL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers were built under Special

way to approved plans, joints X rayed, boilers hydraulically tested and the material and

workmanship found satisfactory. Installation carried out in accordance to Rule requirements, and

our satisfaction and the vessel is considered eligible in our opinion to receive the Notation

\*2 (N) WT.B. Built 7.48; fitted 10.48 in the Register Book.

Fee \$250.00 : When applied for, Jan. 4, 1949

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

tee's Minute NEW YORK FEB 9 1949

d 2 WT.B (CPT) 525 lbs.

K. S. Wagensen

(Engineer Surveyor to Lloyd's Register of Shipping.)

Lloyd's Register  
Foundation

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