

REPORT ON WATER TUBE BOILERS.

No. 47695

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Date of writing Report 19 When handed in at Local Office 19 Port of NEW YORK.
 No. in Survey held at BROOKLYN, N.Y. Date, First Survey February 27 Last Survey April 14th 1947.
 Reg. Bk. 16250 on the S.S. VIKDAL. (EX JOHN MASON). (Number of Visits 6) Tons {Gross 7176 Net 4380.
 Built at SO PORTLAND, ME. By whom built NEW ENGLAND S.B. CORP. When built 1943.
 Engines made at WEST SPRINGFIELD, MASS. By whom made HARRISBURG MACHINERY CORP. When made 1943.
 Boilers made at LOUISVILLE, KY. By whom made HENRY VOGT CO. When made 1943.
 Nominal Horse Power Owners TANKERS CORPORATION. Port belonging to PANAMA CITY.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel WORTH STEEL CO. CLAYMONT, DEL.

Date of Approval of plan Number and Description or Type of Boilers 2-BABCOCK & WILCOX, CROSSDRUM. Working Pressure 240 LBS. Tested by Hydraulic Pressure to 500 LBS. Date of Test 8-21-43.

No. of Certificate AMERICAN BUREAU Can each boiler be worked separately YES Total Heating Surface of Boilers 10232 sq. ft.

Is forced draught fitted YES Area of fire grate (coal) in each Boiler —

No. and type of burners (oil) in each boiler 4-BABCOCK & WILCOX. No. and description of safety valves on

each boiler 1-4" DUPLEX. Area of each set of valves per boiler {per rule — as fitted 25 sq. in. Pressure to which they

are adjusted 240 LBS. Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter

be donkey boiler. Smallest distance between boilers or uptakes and bunkers or woodwork NO WOODWORK. Height of boiler 15' 3 3/8".

Width and Length 14' 7 3/4" X 4' 4 1/8" Steam Drums:—Number in each boiler ONE. Inside diameter 47 3/8" ✓

Thickness of plates 15/16" Range of Tensile Strength 70000 Are drum shell plates welded

or flanged WELDED. If fusion welded, state name of welding firm HENRY VOGT MACH CO. LOUISVILLE, KY. Have all the requirements of the rules

for Class I vessels been complied with AMERICAN BUREAU Description of riveting:—Cir. seams — long. seams —

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

long. joint:—Plate — Rivet — Diameter of tube holes in drum 4 1/32" ✓ Pitch of tube holes 7" ✓

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength 65000.

Thickness of plates 15/16" ✓ Radius or how stayed — Size of manhole or handhole 12" X 16" ✓ Water Drums:—Number

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

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

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

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

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

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

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

Headers or Sections:—Number 22 ✓ Material STEEL ✓ Thickness 19/32" ✓ Tested by Hydraulic Pressure to 500 lbs. per sq. in.

Tubes:—Diameter 4" 2" ✓ Thickness 4.6 BWG. 2" 40 BWG. Number 4.88 2" 602 ✓ Steam Dome or Collector:—Description of

Joint to Shell NONE ✓ Inside diameter — Thickness of shell plates — Range of tensile

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

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

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

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

SUPERHEATER, Drums or Headers:—Number in each boiler ONE Inside Diameter 7 1/4" ? outside

Thickness 5/8" ✓ Material STEEL ✓ Range of tensile strength 60000 - 70000 Are drum shell plates welded

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

for Class I vessels been complied with AMERICAN BUREAU Description of riveting:—Cir. seams — long. seams —

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

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

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

Radius or how stayed — Size of manhole or handhole — Number, diameter, and thickness of tubes —

Tested by Hydraulic Pressure to 500 LBS. Date of Test — Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler YES No. and description of Safety Valves 1-1 1/2" ✓ Area of each set

of valves 176 sq. in. ✓ Pressure to which they are adjusted 230 lbs. ✓ Is easing gear fitted No

Spare Gear. Has the spare gear required by the rules been supplied YES ✓

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of } — } Is the approved plan of boiler forwarded herewith. YES.
 while } work in shops - - }
 building } During erection on }
 board vessel - - }

Is this boiler a duplicate of a previous case. If so, state vessel's name and report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Water tube boilers designed and
 Constructed by the Babcock & Wilcox Co and Henry Vogt Machine Corp were constructed under
 Special Survey of American Bureau of Shipping & have now been examined over all parts,
 subjected to hydraulic pressure and found in good condition.

Survey Fee £ ✓ : : } When applied for, 19
 Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute

Assigned 2 WT B (APT) 240 lbs.

NEW YORK MAY 7 1947

Engineer Surveyor to Lloyd's Register of Shipping.

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