

REPORT ON WATER TUBE BOILERS.

No. 1925.

Received at London Office.

26 OCT 1942

Date of writing Report: 1/7 1942 When handed in at Local Office: 4/7 1942 Port of Mobile, ALA.
No. in Survey held at: CHICKASAW, ALA. Date, First Survey: Nov. 15/41. Last Survey: June 15 1942
Reg. Bk. on the S.S. "FAIRPORT" (Number of Visits: 19) Gross Tons: 6165.
Net Tons: 3819
Built at: CHICKASAW, ALA. By whom built: GULF SHIPBUILDING CO. When built: 1942.
Engines made at: LYNN, MASS. By whom made: FENNER ELECTRIC CO. When made: 1942.
Boilers made at: BARBERTON, OHIO. By whom made: BABCOCK & WILCOX CO. When made: 1942.
Nominal Horse Power: Owners: WATERMAN STEAMSHIP CORPN. Port belonging to: Mobile, ALA.

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

Date of Approval of plan: AUGUST 1941. Number and Description or Type of Boilers: (2) SINGLE DRUM TYPE. Working Pressure: 500 LBS. Tested by Hydraulic Pressure to: 750 LBS. Date of Test: 2.4.42
No. of Certificate: — Can each boiler be worked separately: YES. Total Heating Surface of Boilers: 7402 sq. ft. (Boilers: 8144 sq. ft. S. 116151258 sq. ft.)
Is forced draught fitted: YES. Area of fire grate (coal) in each Boiler: — No. and description of safety valves on each boiler: 12-26 J" 9.88 in ordinary valves Pressure to which they are adjusted: 2-2 1/2 DIA = 9.82 0"
No. and type of burners (oil) in each boiler: 3-BABCOCK & WILCOX DECAAGON C.O. DESIGN. No. and description of safety valves on each boiler: DOUBLE SPRING LOADED CONSOLIDATED-TYPE. Area of each set of valves per boiler: { per rule 12-26 J" 9.88 in ordinary valves as fitted 2-2 1/2 DIA = 9.82 0"
are adjusted: 500 LBS. Are they fitted with easing gear: YES. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler: — Height of boiler: 17'-8"
Width and Length: 12'-4 1/2" x 9'-10". Steam Drums: Number in each boiler: ONE. Inside diameter: 42 1/2"
Thickness of plates: 2 1/2" x 1 1/8". Range of Tensile Strength: 40,000 to 84,000 LBS. Are drum shell plates welded or flanged: WELDED. If fusion welded, state name of welding firm: BABCOCK & WILCOX CO. Have all the requirements of the rules for Class I vessels been complied with: YES. Description of riveting: Cir. seams long. seams: —
Diameter of rivet holes in long. seams: 90%. Pitch of rivets: — Thickness of straps: — Percentage strength of long. joint: Plate 90%. Rivet 42.41. Diameter of tube holes in drum: 4 3/8". Pitch of tube holes: 7"
Percentage strength of shell in way of tubes: 42.41. Steam Drum Heads or Ends: Range of tensile strength: 40,000 to 77,000 LBS. Thickness of plates: 1 1/2". Radius or how stayed: 33 3/8". Size of manhole or handhole: 12" x 16". Water Drums: Number in each boiler: — Are drum shell plates welded or flanged: — 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: — Pitch of tube holes: — 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: — Size of manhole or handhole: 42,000 to 77,000 LBS. Thickness of plates: — Tested by Hydraulic Pressure to: 750 LBS.
Headers or Sections: Number: TWELVE. Material: STEEL. Thickness: 1 1/2". Number: 48. 70. Steam Dome or Collector: Description of Tubes: Diameter: 1 1/2" x 2". Thickness: .095, .095, .134. Number: 48. 70. Range of tensile strength: — If fusion welded, state name of welding firm: —
Joint to Shell: — Description of longitudinal joint: — Diameter of rivet holes: — Plate: — Rivet: —
Pitch of rivets: — Thickness of straps: — Percentage strength of long. joint: — Radius or how stayed: —
Crown or End Plates: Range of tensile strength: — Thickness: — Radius or how stayed: —
SUPERHEATER: Headers: Number in each boiler: UPPER & LOWER. Inside Diameter: 5 1/2" SQUARE. Thickness: 1/8". Material: STEEL. Range of tensile strength: 42,000 to 77,000 LBS. Are drum shell plates welded or flanged: — Have all the requirements of the rules for Class I vessels been complied with: YES. 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 —
Drum shell in way of tubes: — Drum Heads or Ends: — Thickness: — Range of tensile strength: — Number, diameter, and thickness of tubes: 141. 1 1/4". 120"
Radius or how stayed: — Size of manhole or handhole: — 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: 2-1 1/2" CAST STEEL SPRING LOADED. Area of each set of valves: — Pressure to which they are adjusted: 500 LBS. Is easing gear fitted: YES.
Spare Gear. Has the spare gear required by the rules been supplied: YES.

The foregoing is a correct description.

Gulf Shipbuilding Corp. by [Signature] Manufacturer.

Is the approved plan of boiler forwarded herewith: —

Total No. of visits: 19.

28 FEB. 42-10 MARCH 3-4 APRIL 13-21 MAY 2-3 JUNE 15.

this boiler a duplicate of a previous case: No.

If so, state vessel's name and report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) Three boilers have been built in accordance with the approved plans for material and workmanship. The boilers are hydrostatically tested upon completion and were found to be in good condition and tight. The safety valves are set at 500 LBS. and are in good working order. In my opinion these boilers are eligible to be classed with the Society.

Survey Fee: \$350.00 When applied for: 4.9 1942
CLEVELAND EXPENSES: \$250.00 (100%)
Travelling Expenses (if any): \$12.00 When received: 19

Committee's Minute: NEW YORK SEP. 23 1942

Assigned 2 WTB (Cht) 500 lbs.

Engine Surveyor to Lloyd's Register of Shipping.

W1181-0236

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