

# REPORT ON WATER TUBE BOILERS.

Received at London Office 26 OCT 1942

Date of writing Report Oct. 28th, 1941 When handed in at Local Office 19 Port of Cleveland, Ohio.  
 No. in Survey held at Barberton, Ohio. Date, First Survey August 10th, Last Survey October 22nd, 1941.  
 Reg. Bk. on the Gulf Shipbuilding Corp. Hull No. 1 3/5" Fairport (Number of Visits 9) (Gross - Tons) (Net -)  
 (Waterman Steamship Corp. Cargo Vessel)  
 Built at - By whom built - When built -  
 Engines made at - By whom made - When made -  
 Boilers made at Barberton, Ohio. By whom made Babcock & Wilcox Co. When made 1941  
 (MB-1567 1 & 2)  
 Nominal Horse Power - Owners - Port belonging to -

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.**—Manufacturers of Steel Worth Steel Co.  
 Date of Approval of plan August 1941. Number and Description of Type (2) Single Drum Type Working Pressure 500 lbs. Tested by Hydraulic Pressure to 1000 lbs. Date of Test 9/18/41.  
 of Boilers (2) Single Drum Type Working Pressure 500 lbs. Tested by Hydraulic Pressure to 1000 lbs. Date of Test 9/18/41.  
 No. of Certificate - Can each boiler be worked separately - Total Heating Surface of Boilers -  
 Is forced draught fitted - Area of fire grate (coal) in each Boiler -  
 No. and type of burners (oil) in each boiler - No. and description of safety valves on each boiler -  
 Area of each set of valves per boiler - Pressure to which they are adjusted -  
 Are they fitted with easing gear - In case of donkey boilers state whether steam from main boilers can enter the donkey boiler - Height of boiler 17' 8"  
 Width and Length 12'4-3/4" & 9'10" Steam Drums:—Number in each boiler One Inside diameter 42-11/16"  
 Thickness of plates 25/32" and 1-5/8" Range of Tensile Strength 70,000 to 82,000 lbs. Are drum shell plates welded or flanged Fusion 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 - Pitch of rivets - Thickness of straps - Percentage strength of long. joint:—Plate 90% Rivet - Diameter of tube holes in drum 4-1/32" Pitch of tube holes 7"  
 Percentage strength of shell in way of tubes 42.41 Steam Drum Heads or Ends:—Range of tensile strength 65,000 to 77,000 lbs.  
 Thickness of plates 1-5/16" Radius ~~xxxxxx~~ 33-3/8" 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 (12) Material Steel Thickness 19/32" Tested by Hydraulic Pressure to 750 lbs.  
 Tubes:—Diameter 1", 1 1/2" & 2" Thickness .095", .095", .134" Number (1328) 1" & (48) 2" Steam Dome or Collector:—Description of joint to Shell - 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.** ~~xxxxxx~~ Headers:—Number in each boiler Upper and Lower Inside Diameter 5-1/2" square  
 Thickness 7/8" Material Steel Range of tensile strength 62,000 to 72,000 lbs. 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 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 - 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 (141) 1 1/2", .120"  
 Tested by Hydraulic Pressure to 750 lbs. Date of Test Aug. & Sept. 1941 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler - No. and description of Safety Valves - Area of each set of valves - Pressure to which they are adjusted - Is easing gear fitted -

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

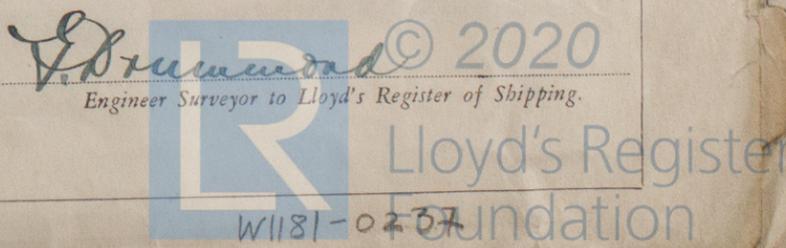
The foregoing is a correct description,  
*Babcock & Wilcox Co. Cleveland* Manufacturer.

Dates of Survey } During progress of work in shops - - August 10; Sept. 16, 18, 24, 25; Is the approved plan of boiler forwarded herewith -  
 while } During erection on board vessel - - - October 2, 14, 17, 22, 1941. Total No. of visits -

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 boilers, unassembled, comprising steam drums and headers, were built to this Society's Special Survey Requirements and to Approved Plans, also in conformity with the Rules of the United States Bureau of Navigation & Steamboat Inspection. Workmanship, materials, X-Ray examinations, tension and bend test results of fusion welded joint specimens and hydraulic tests of drums and headers, were found satisfactory.

Survey Fee TO BE CREDITED TO: CLEVELAND When applied for, 19  
 Travelling Expenses (if any) x \$12.00 : } When received, 19

Committee's Minute NEW YORK SEP 23 1941  
 Assigned See First Entry Report.



W1181-0207