

REPORT ON WATER TUBE BOILERS.

No. 49351

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Date of writing Report 20 July 19 49 When handed in at Local Office 20 July 19 49 Port of NEW YORK
 No. in Survey held at Carteret, N.J. Date, First Survey 9th Feb. Last Survey 14th July 1949
 No. of Book. on the Bethlehem Sparrows Point Hull No. 4471 S.S. "SAN TOME" (Number of Visits 6)
 Tons Gross Net
 Built at By whom built Yard No. When built
 Engines made at By whom made Engine No. When made
 Boilers made at Carteret, N.J. By whom made The Foster Wheeler Corp. Boiler No. When made
 Nominal Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem
 Date of Approval of plan 25th Aug. 1948, New York No. and Description or Type
 Boilers/Drums Two (2) Fusion Welded Working Pressure 675 lbs. Tested by Hydraulic Pressure to 1350 lbs. Date of Test 4th Apr. 1949
 of B. 4434-1 Can each boiler be worked separately Total Heating Surface of Boilers
 of B. 4434-2 forced draught fitted Area of Fire Grate (coal) in each Boiler
 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
 Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler
 Width and length Steam Drums:—Number in each boiler One Inside diameter 46-7/8"
 Thickness of plates Wrapper 1-3/16" Tube 3-7/16" Range of tensile strength 70,000 lb./sq.in. min. Are drum shell plates welded
 flanged Welded If fusion welded, state name of welding firm The Foster Wheeler Corp. Have all the requirements of the Rules
 for Class I vessels been complied with Yes Description of riveting:—Circ. 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 3.026", 2.028" Pitch of tube holes 4.29", 1-7/8", 4-1/2"
 Percentage strength of shell in way of tubes 31.3 Steam Drum Heads or Ends:—Range of tensile strength 70,000 lb. min.
 Thickness of plates 1-3/16" Plain Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number
 each boiler One Inside diameter 30.5" Thickness of plates 2-5/16" Range of tensile strength 70,000 lb. min. Are drum shell plates
 welded or flanged Welded If fusion welded, state name of welding firm The Foster Wheeler Corp. Have all the requirements of the Rules
 for Class I vessels been complied with Yes Description of riveting:—Circ. 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 3.026", 2.028" Pitch of tube holes 3.72", 4.5"
 Percentage strength of drum shell in way of tubes 31.3 Water Drum Heads or Ends:—Range of tensile strength 70,000 lb. min.
 Thickness of plates 13/16" Plain Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"
 Headers or Sections:—Number 1-3/16" Man Material Thickness Tested by hydraulic pressure to
 Tubes:—Diameter Thickness Number 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
 Have all the requirements for 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 Inside diameter
 Thickness Material Range of tensile strength Are drum shell plates welded
 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:—Circ. 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 Date of test 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
 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,
 A. E. Leating Manufacturer.

Dates During progress of work in shops 9th Feb., 4th & 26th April, 2nd June, 14th July Is the approved plan of boiler forwarded herewith No
 Survey while building During erection on board vessel Total No. of visits

this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Bethlehem Hull 4470 N.Yk. 49248/9
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. These fusion welded drums have been made and
 tested in accordance with the approved plans and Rules for Welded Pressure Vessels, and the workmanship
 and materials are good. These drums have been forwarded to Bethlehem Sparrows Point Yard for instal-
 tion on Hull No. 4471, and when this has been done in accordance with the Rules and to the satisfaction
 of the Society's Surveyor, the vessel will be eligible in my opinion to receive the notation of 2 WTB(SPHT) 675 lbs.
 Survey Fee ... £ : : When applied for 19
 Travelling Expenses (if any) \$8.00 : : When received 19

Date NEW YORK MAR 10 1950
 Committee's Minute See First Entry Report attached.

H. J. Saunders
 Engineer Surveyor to Lloyd's Register of Shipping.

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