

REPORT ON WATER TUBE BOILERS.

No. 6825

Received at London Office AUG 14 1939

Date of writing Report July 21st 1939 When handed in at Local Office July 26th 1939 Port of Baltimore, Maryland

No. in Survey held at Sparrows Point, Maryland Date, First Survey January 6th Last Survey June 28th 1939
 Reg. Bk. 89138 on the "MOBILUEE" Steel Single Screw Oil Tanker Steamship (Number of Visits 18) Tons Gross 10222 Net 6181
 Master T O Joanssen Built at Sparrows Point, Md. By whom built Bethlehem Steel Co. (Shipbldg Div.) When built 1938-39
 Engines made at Essington, Pa. By whom made Westinghouse Electric & Mfg. Co. When made 1938-39
 Boilers made at Carteret, N.J. By whom made Foster Wheeler Corp. (No. 269-270) When made 1938
 Registered Horse Power 706.79 N.H.P. Owners Socony-Vacuum Oil Co. Inc. Port belonging to New York

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Company
 (Letter for Record -) Date of Approval of plan July 20th, 1938
 of Boilers Two Water "D" Type Marine Working Pressure 450 lbs Tested by Hydraulic Pressure to 725 lbs Date of Test Apr. 27, 1939
 No. of Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 5300 sq. ft.
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired Total grate area of boilers in vessel including Main and Auxiliary - No. and type of burners (oil) in each boiler 3-Todd-variable caps-No. and description of safety valves on each boiler Two Single Spring loaded C.A.H. Area of each valve 1.8385 Sq. ins. Pressure to which they are adjusted 445 & 450
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler None
 Smallest distance between boilers or uptakes and bunkers or woodwork Thirty-two ins. Height of Boiler 18' to cen-re of upper drum Width and Length 14'-11 1/2" x 9'-9 7/8"
 Steam Drums:—Number in each boiler One Inside diameter 48 ins. Material of plates O.H. Steel Thickness 1 19/32 ins.
 Range of Tensile Strength 65,000 lbs. per sq. inch Are drum shell plates welded or flanged Fusion welded Description of riveting:—
 Cir. seams Fusion welded long. seams Fusion welded Diameter of rivet holes in long. seams - Pitch of Rivets -
 Lap of plate or width of butt straps Butt joint Thickness of straps - Percentage strength of long. joint:—Plate 90% allowed Rivet -
 Diameter of tube holes in drum 2 1/32" & 1 9/32" Pitch of tube holes 2 3/4" & 2 1/4", 4 1/2" Percentage strength of shell in way of tubes 48.75 %
 If Drum has a flat side state method of staying No flat side Depth and thickness of girders at centre (if fitted) - Distance apart - Number and pitch of stays in each - Working pressure by rules 461 lbs. per Sq. in. Steam Drum Heads or Ends:—Material O.H. Steel Thickness 3/4" & 1 1/16" Radius or how stayed Ellipsoidal
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler One Inside Diameter 32 ins.
 Material of plates Steel Thickness 1 1/16" Range of tensile strength 65,000 lbs. min. Are drum shell plates welded or flanged Fusion welded Description of riveting:—Cir. seams Fusion welded long. seams Fusion welded Diameter of Rivet Holes in long. seams - Pitch of rivets - Lap of plates or width of butt straps Butt joint Thickness of straps -
 Percentage strength of long. joint:—Plate 90% allowed Rivet - Diameter of tube holes in drum 2 1/32" & 1 9/32" Pitch of tube holes 2 3/4" & 2 1/4", 4 1/2"
 Percentage strength of drum shell in way of tubes 48.75% Water Drum Heads or Ends:—Material O.H. Steel Thickness 7/8" & 9/16"
 Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Headers or Sections:—Number 2 - Superheater elements
 Material Steel Thickness 7/8" & 1 1/8" Tested by Hydraulic Pressure to 675 lbs. Material of Stays None
 Area at smallest part (6 seamless shaped tubing) Area supported by each stay - Working Pressure by Rules - Tubes:—Diameter Two inch dia. Thickness Nine gauge & Eleven gauge Number 523 Steam Dome or Collector:—Description of Joint to Shell None 1 1/4 in. dia.
 Percentage strength of Joint - Diameter - Thickness of shell plates - Material -
 Description of longitudinal joint - Diameter of Rivet Holes - Pitch of Rivets - Working Pressure of shell by Rules -
 Crown or End Plates:—Material - Thickness - How stayed -
SUPERHEATER. Type Drainable Date of Approval of Plan Boiler July 20, 1938 Tested by Hydraulic Pressure to 725 lbs. sq. in.
 Date of Test April 27, 1939 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve One & a half inch Pressure to which each is adjusted 435 lbs. Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 324 - 1 1/2" by 10 gauge
 Spare Gear. Tubes 50-2" & 1 1/2" Gaskets or joints:—Manhole 12 Handhole etc. 324 Handhole plates 49 also three complete oil burners, two feed check valves, 36 tube stoppers & numerous other accessories.
 The foregoing is a correct description,
 Foster-Wheeler Corp. Manufacturer.

1938
 Dates of Survey } During progress of work in shops - - } Aug. 22; Sept. 1; 8; 13; 29; Oct. 6; 13; 17; & Nov. 9 & 17th Is the approved plan of boiler forwarded herewith Yes
 while building } During erection on board vessel - - - } 1939 Jan. 6; Feb. 25; March 1; 21; Apr. 14; 27; 29; May 4; 9; 11; 18; 29; June 5; 6; 12; 17; 21; 28 Total No. of visits 28

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built & erected under Special Survey - Please refer New York Rpt. No. 38841 with attached electric welding particulars - in accordance with the Rules and approved plans and the workmanship and material throughout are good. Same have been hydraulically tested in place on board the vessel with all fittings & piping and subsequently seen under steam working conditions and all eligible in my opinion to be classed and receive the notation Two W.T. Boilers - 450 lbs. F.D. made in Register Book.

Survey Fee ... N.Yk. £ \$175.00 : } When applied for, July 26th 1939
 Balto. £ \$175.00 : }
 Travelling Expenses (if any) £ : } When received, 19.9.39 R.P.S.
 N.Yk. \$ 10.00 : }
 Balto. \$ 32.50 : }

Committee's Minute NEW YORK AUG 2 - 1939
 Assigned 2 W T B (450 lbs. F.D.)

Engineer Surveyor to Lloyd's Register of Shipping.

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