

REPORT ON WATER TUBE BOILERS.

No. 7969

Received at London Office

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Date of writing Report 10 Dec 1940 When handed in at Local Office 18 Dec 1940 Port of Philadelphia
 No. in Survey held at Chester, Pa Date, First Survey 23 Aug Last Survey 7 Nov 1940
 Reg. Bk. on the SS MV. AMERICA. SUN (Number of Visits 7) Tons { Gross 10248
Chester, Pa By whom built Sum SB & DD Co hull 196 Net 6891
 Built at Chester, Pa When built 1940
 Engines made at " By whom made " When made "
 Boilers made at Bartlett NJ By whom made Forti Wheel Corporation (FWB 475) When made "
 Nominal Horse Power 1190 Owners Sum Oil Co Port belonging to Philadelphia

WATER TUBE BOILERS OIL FIRED, STAND. BY MAIN, AUXILIARY, OR DONKEY. — Manufacturers of Steel Bethlehem Steel Co

Date of Approval of plan 8 August 1940 Number and Description or Type of Boilers One, FW Marine Cross Drum W T Working Pressure 245 lbs Tested by Hydraulic Pressure to 368 Date of Test 17-9-40
 No. of Certificate 728 Can each boiler be worked separately Yes Total Heating Surface of Boilers 1258 sq
 Is forced draught fitted No Area of fire grate (coal) in each Boiler oil fired
 No. and type of burners (oil) in each boiler One Best type No. and description of safety valves on each boiler 2 Spring loaded Crosby high lift Area of each valve 1.77 sq Pressure to which they are adjusted 245 lbs
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork One Height of boiler 15' 10" A Width and Length 11' 9" x 7' 0"
 Steam Drums:—Number in each boiler One Inside diameter 36" Thickness of plates 3/4"
 Range of Tensile Strength 6500 minimum Are drum shell plates welded or flanged Union Welded Description of riveting:—
 Cir. seams Union Welded long. seams Union Welded Diameter of rivet holes in long. seams " Pitch of rivets "
 Lap of plate or width of butt straps Butt weld Thickness of straps " Percentage strength of long. joint:—Plate 90% allowed Rivet "
 Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.2
 Working pressure by rules Steel Steam Drum Heads or Ends:—Range of tensile strength Steel Thickness of plates 2 3/32" 1 9/32"
 Radius or how stayed elliptical Size of manhole or handhole 12" x 16" Working pressure by rules Steel Water Drums:—Number in each boiler 1 Inside Diameter 7 1/4" square Thickness of plates 5/8" Range of tensile strength 6500 lbs min Are drum shell plates welded or flanged Solid drawn Description of riveting:—Cir. seams " long. seam " Diameter of rivet holes in long. seams " Pitch of rivets " Lap of plates or width of butt straps Butt weld Thickness of straps "
 Percentage strength of long. joint:—Plate " Rivet " Diameter of tube holes in drum 2 1/32" Pitch of tube holes "
 Percentage strength of drum shell in way of tubes " Working pressure by rules " Water Drum Heads or Ends:—Range of Tensile strength " Thickness of plates " Radius or how stayed "
 Size of manhole or handhole " Working pressure by rules " Headers or Sections:—Number 18
 Material Steel Thickness 5/8" Tested by Hydraulic Pressure to 368 lbs Tubes:—Diameter 2" x 4"
 Thickness 13/16" & 1/2" Number 288 & 9 Steam Dome or Collector:—Description of Joint to Shell None
 Inside diameter " Thickness of shell plates " Range of tensile strength "
 Description of longitudinal joint " Diameter of rivet holes " Pitch of rivets " Lap of plate or width of butt straps " Thickness of straps "
 Working Pressure of shell by rules " Crown or End Plates:—Range of tensile strength " Working pressure by rules "
 Thickness " Radius or how stayed " SUPERHEATER. Drums or Headers:—Number in each boiler None Inside Diameter "
 Thickness " Material " Range of tensile strength " Are drum shell plates welded or flanged " Description of riveting:—Cir. seams " long. seams " Diameter of rivet holes in long. seams " Pitch of rivets " Lap of plates or width of butt straps " 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 " Working pressure by rules " Drum Heads or Ends:—Thickness " Range of tensile strength " Radius or how stayed " Size of manhole or handhole "
 Working pressure by rules " 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 of valves "
 Pressure to which they are adjusted " Is easing gear fitted Yes
 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 work in shops - - 23 & 28 Aug. 17 & 26 Sept 1940 Is the approved plan of boiler forwarded herewith Yes
 while building { During erection on board vessel - - Oct 4. 17 Nov 7. 1940 Total No. of visits 7

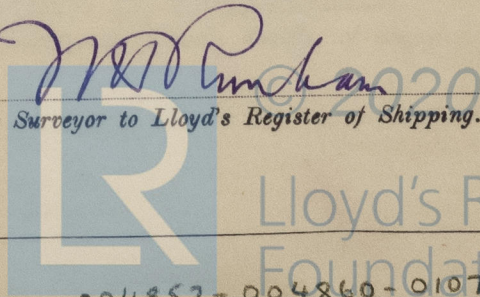
Is this boiler a duplicate of a previous case No If so, state vessel's name and report No. "

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been satisfactorily installed on board the vessel, the workmanship & materials are good. The boiler has been subjected to a hydraulic test of 368 lbs & found satisfactory. The safety valves have been adjusted under steam to 245 lbs. In my opinion the vessel is eligible to receive the notation of 3 WTD B (1 Spt) 245-lbs.

Survey Fee ... £ : : When applied for, 4th Jan. 1941
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute NEW YORK JAN 8 - 1941Assigned 1 WTD B (oil fired) - 245 lbs.

Engineer Surveyor to Lloyd's Register of Shipping.



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