

REPORT ON WATER TUBE BOILERS.

No. 7969

Cargo Boilers

Received at London Office FEB 17 1941

Date of writing Report 10 Dec 1940 When handed in at Local Office 18 Dec 1940 Port of Philadelphia
 No. in Survey held at Lehigh Pa Date, First Survey 8 July Last Survey 7 Nov 1940
 Reg. Bk. on the SS MV. AMERICA SUN. (Number of Visits 8) Gross 10248 Tons Net 6891
 Built at Lehigh Pa By whom built Sam P B D Co When built 1940
 Engines made at " By whom made " When made "
 Boilers made at Baltimore Md By whom made Foster Wheeler Corporation When made "
 Nominal Horse Power 1890 Owners Sam Gil Co Port belonging to Philadelphia

WATER TUBE BOILERS - MAIN, AUXILIARY, OR DONKEY. - Manufacturers of Steel Bethlehem Steel Co

Date of Approval of plan 12 March 1940 Number and Description of Type of Boilers 1 Cargo boiler (Sectional Leader type) Working Pressure 245 lb Tested by Hydraulic Pressure to 368 Date of Test 10-10-40
 No. of Certificate 726 Can each boiler be worked separately Yes Total Heating Surface of Boilers 5260
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler oil fired No. and description of safety valves on each boiler 2 Spring loaded Area of each set of valve 12.16 Pressure to which they are adjusted 245 lb
 No. and type of burners (oil) in each boiler 5 Solid No. and description of safety valves on each boiler 2 Spring loaded Area of each set of valve 12.16 Pressure to which they are adjusted 245 lb
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 42" Height of boiler 13'-4" Width and Length 61 3/4 x 12-8 3/4
 Steam Drums: - Number in each boiler 1 Inside diameter 42" Thickness of plates 15/16"
 Range of Tensile Strength 60000 lb 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 " Thickness of straps " Percentage strength of long. joint: - Plate 90% all metal Rivet "
 Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.4
 Working pressure by rules " Steam Drum Heads or Ends: - Range of tensile strength 60000 Thickness of plates 15/16"
 Radius or how stayed 42" Rad Size of manhole or handhole 12" x 16" Working pressure by rules " Water Drums: - Number in each boiler None Inside Diameter " Thickness of plates " Range of tensile strength " Are drum shell plates welded or flanged " 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 " 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 " 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 22
 Material Steel Thickness 1/16" Tested by Hydraulic Pressure to 368 lb Tubes: - Diameter 2"
 Thickness .134" Number 748 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 " Percentage strength of long. joint " Plate " Rivet "
 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 1 Inside Diameter 67/8"
 Thickness 7/8" Material Steel OH Range of tensile strength 60000 Are drum shell plates welded or flanged solid drawn 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 28 2" OD 9BWG Tested by Hydraulic Pressure to 368
 Date of Test 10-10-40 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 1 - 1 1/2 Spring loaded Area of each set of valves 1.78
 Pressure to which they are adjusted 242 lb Is easing gear fitted Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of } 1940 - 8. 11. 16 July 28 Aug. Is the approved plan of boiler forwarded herewith "
 while } work in shops - - }
 building } During erection on } 13. 24 Sept. 10 Oct 7 Nov 1940 Total No. of visits 8
 board vessel - - - }

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, etc.) 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 lb found satisfactory. The safety valves have been adjusted under steam to 245 lb. In my opinion the vessel is eligible to receive the notation of 3 WTDB (1 qt) 245 lb.

Survey Fee 50.00 (12.8) When applied for 4 Jan 1941
 Travelling Expenses 75.00 (6.8) Exp. received 19
Phila 75.00 (5.8)

Committee's Minute NEW YORK JAN 8 - 1941

Assigned 1 WTDB (1 qt) 245 lb.

W D Dunham
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

Is a Report also sent on the Hull of the Ship?

LLOYD'S REGISTER OF SHIPPING (MADE IN ENGLAND)