

REPORT ON WATER TUBE BOILERS.

No. 7969

Date of writing Report 10 Dec 1940 When handed in at Local Office 18 Dec 1940 Received at London Office FEB 17 1941
 No. in Reg. Bk. 10 Survey held at Lechester Pa Port of Philadelphia Date, First Survey 8 July Last Survey 7 Nov 1940
 on the SS MV. AMERICA SUN. (Number of Visits 8) Gross 10248 Tons Net 6891
 Built at Lechester Pa By whom built Sam PB 9 DD Co Hull 196 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 or Type of Boilers 1 Cargo boiler (Sectional header 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 all fire
 No. and type of burners (oil) in each boiler 5 Solid Area of each set of valve 12.16 No. and description of safety valves on each boiler 2 Spring loaded 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
 Smallest distance between boilers or uptakes and bunkers or woodwork
 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
 Lap of plate or width of butt straps 4 1/2" Thickness of straps 7" Percentage strength of long. joint:—Plate 90% all rivet Rivet
 Diameter of tube holes in drum 4 1/2" Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.4
 Working pressure by rules 245 lb Steam Drum Heads or Ends:—Range of tensile strength 60000 Thickness of plates 15/16"
 Radius or how stayed 42" R Size of manhole or handhole 12" X 16" Working pressure by rules
 in each boiler None Inside Diameter " Thickness of plates " Range of tensile strength
 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 1/34" 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 "
 Thickness " Radius or how stayed " Working pressure by rules "
SUPERHEATER. Drums or Headers:—Number in each boiler 1 Inside Diameter 6 7/8"
 Thickness 7/8" Material Steel OH Range of tensile strength 60000 Are drum shell plates welded
 or flanged solid drum 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 9 BWG 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
 Spare Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey 1940-8-11-16 July 28 Aug Is the approved plan of boiler forwarded herewith
 while building 13-24 Sept. 10 Oct 7 Nov 1940 Total No. of visits 8

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 WTSB (1 qt) 245 lb.

Survey Fee £50.00 12/8 When applied for, 4 Jan 1941Travelling Expenses £75.00 6/8 Exp. received, 19

Committee's Minute

Assigned 1 WTSB (1 qt) 245 lb.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

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