

REPORT ON WATER TUBE BOILERS.

No. 7272

Received at London Office

Date of writing Report 15th April 1937 When handed in at Local Office 15th April 1937 Port of Philadelphia
 No. in Survey held at Chester, Pa. Date, First Survey 16 Nov 1936 Last Survey March 30 1937
 Reg. Bk. MV TEXAS. SUN. (Number of Visits 12) Gross Tons not available
 Master Chester, Pa. Built at Chester, Pa. By whom built Sum Ship Bldg Co When built 1937
 Engines made at Chester, Pa. By whom made Sum Ship Bldg Co When made "
 Boilers made at Cleveland, O. Chester, Pa. By whom made Foster Wheeler Corp When made "
 Registered Horse Power 1145 Owners Sum Gil Co Port belonging to Philadelphia

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR DONKEY.~~ Manufacturers of Steel Bethlehem Steel Co
 (Letter for Record One. Sectional Header Type) Date of Approval of plan 7 Nov 1936 Number and Description or Type Dec 17 1936
 of Boilers One. Sectional Header Type Working Pressure 245 lb Tested by Hydraulic Pressure to 375 Date of Test March 16 1937
 No. of Certificate 697 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 5 Total grate area of boilers in vessel including Main and Auxiliary 5 No. and type of burners (oil) in each boiler 5 Total type Yes No. and description of safety valves on each boiler 2 4" Pump loaded Area of each valve 12.56 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 15' 2" Height of Boiler 15' 2" Width and Length 16' 3" x 18' 6"
 Steam Drums:—Number in each boiler 1 Inside diameter 42" Material of plates Steel Thickness 15/16"
 Range of Tensile Strength 60/70000 lbs 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 " 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
 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 250 lbs
 Steam Drum Heads or Ends:—Material Steel Thickness 15/16" Radius or how stayed 42" radius
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler " Inside Diameter "
 Material of plates " Thickness " 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 " Water Drum Heads or Ends:—Material " Thickness "
 Radius or how stayed " Size of manhole or handhole " Headers or Sections:—Number 22 sections
 Material Steel Thickness 5/8" Tested by Hydraulic Pressure to 368 lb Material of Stays "
 Area at smallest part " Area supported by each stay " Working Pressure by Rules " Tubes:—Diameter 2"
 Thickness No 10 BWG Number 660 Steam Dome or Collector:—Description of Joint to Shell "
 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 Tubular Date of Approval of Plan 7 Nov 1936 Tested by Hydraulic Pressure to 375 lb
 Date of Test March 16 1937 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 3" Pressure to which each is adjusted 242 lb Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 14. 2" x No 9
 Spare Gear. Tubes " Gaskets or joints:—Manhole 6 Handhole 20 Handhole plates 5
Boilers. 37. 24 tube stoppers. 414 20.
 The foregoing is a correct description, Manufacturer.

Dates of Survey Cleveland, O. Jan 15, Danville, OH Jan 20 1937. Is the approved plan of boiler forwarded herewith Yes.
 During progress of work in shops Nov 16-24-30, Dec 17-28 1936. Total No. of visits 12.
 During erection on board vessel Feb 5-8, March 12-16, 30 1937

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above donkey boiler has been constructed under special survey, and in accordance with the approved plans, the workmanship & materials are good. The boiler has been subjected in a hydrostatic test of 368 lbs & found satisfactory. The boiler has been satisfactorily installed on board the vessel, and the safety valves adjusted under steam to 245 lbs. In my opinion the boiler is eligible to receive the record of 1 W T D B 245 lbs.

Survey Fee \$110.00 When applied for, 20th April 1937
 Travelling Expenses (if any) \$45.10 When received, 10.6 1937
 At Cleveland 5.00
 At Philade 5.00
 Committee's Minute NEW YORK APR 28 1937
 Assigned 1 W T D B - 245 lbs

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