

REPORT ON WATER TUBE BOILERS.

No. 7418

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Date of writing Report 14 Jan 1938 When handed in at Local Office 6 Jan 1938 Port of Philadelphia
 No. in Survey held at Chester Pa & Cartaret NJ Date, First Survey 2nd April Last Survey 21 Dec 1937
 Reg. Bk. on the SS M.V. RHODE ISLAND (Number of Visits 22) Tons { Gross 81762 Net 8070
 Master JM Built at Chester Pa By whom built Sum SB & DD Co When built 1937
 Engines made at Chester Pa By whom made Sum SB & DD Co When made "
 Boilers made at Cartaret NJ By whom made Foster Wheeler Corp When made "
 Brake 4800 Owners The Texas Co Port belonging to Wilmington Del.
 Registered Horse Power 4800

WATER TUBE BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY. — Manufacturers of Steel Lukens Steel Co
 (Letter for Record S) Date of Approval of plan 7 May 1937 Number and Description or Type of Boilers 2 Watertube A(type) Working Pressure 227 lb Tested by Hydraulic Pressure to 341 lb Date of Test 20 Sept
 No. of Certificate 715 Can each boiler be worked separately Yes Total Heating Surface of Boilers 6000 sq ft
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler 3 Total Yes Total grate area of boilers in vessel including Main and Auxiliary 2 Spring loaded No. and type of burners (oil) in each boiler 7.07" No and description of safety valves on each boiler 227 lb Pressure to which they are adjusted 227 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 17'-5 3/32" Height of Boiler 16'-3 3/8" x 9'-9 3/8" Width and Length 27/32" Thickness 27/32"
 Steam Drums:—Number in each boiler 1 Inside diameter 46" Material of plates Steel Description of riveting:—
 Range of Tensile Strength 65-75000 lb Are drum shell plates welded or flanged Fusion Welded Pitch of Rivets 90% allowed
 Cir. seams Fusion Welded long. seams Fusion Welded Diameter of rivet holes in long. seams 3 1/32" Percentage strength of long. joint:—Plate 90% allowed Rivet 43.47%
 Lap of plate or width of butt straps 2 1/32" Thickness of straps 1 1/32" Percentage strength of shell in way of tubes 43.47%
 Diameter of tube holes in drum 2 1/32" Pitch of tube holes 3 1/32" Depth and thickness of girders at centre (if fitted) No flat side
 Distance apart 230 lb Number and pitch of stays in each 13/16" x 3/4" Working pressure by rules 42" Rad
 Steam Drum Heads or Ends:—Material Steel Thickness 13/16" Radius or how stayed 42" Rad
 Size of Manhole or Handhole 12" x 16" Water Drums:—Number in each boiler 2 Inside Diameter 30"
 Material of plates Steel Thickness 9/16" Range of tensile strength 65-75000 lb 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 3 1/32" Pitch of rivets 90% allowed Rivet 43.47%
 Lap of plates or width of butt straps 2 1/32" Thickness of straps 1 1/32" Percentage strength of long. joint:—Plate 90% allowed Rivet 43.47%
 Diameter of tube holes in drum 2 1/32" Pitch of tube holes 3 1/32" Water Drum Heads or Ends:—Material Steel Thickness 13/32"
 Percentage strength of drum shell in way of tubes 43.47% Headers or Sections:—Number None
 Radius or how stayed 30" Rad Size of manhole or handhole 12" x 16" Material of Stays 2" x 1 1/2"
 Material Steel Thickness 13/32" Tested by Hydraulic Pressure to 341 lb Working Pressure by Rules 227 lb
 Area at smallest part 134" x 109" Area supported by each stay 66-2" x 910-1 1/2" Tubes:—Diameter 2" x 1 1/2"
 Thickness 134" x 109" Number 66-2" x 910-1 1/2" Steam Dome or Collector:—Description of Joint to Shell None
 Percentage strength of Joint 43.47% Diameter 12" x 16" Thickness of shell plates 13/32" Material Steel
 Description of longitudinal joint None Diameter of Rivet Holes 3 1/32" Pitch of Rivets 90% allowed Working Pressure of shell by Rules 227 lb
 Crown or End Plates:—Material Steel Thickness 13/32" How stayed None
 SUPERHEATER. Type None Date of Approval of Plan 7 May 1937 Tested by Hydraulic Pressure to 341 lb
 Date of Test 20 Sept Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 40 Pressure to which each is adjusted 400 Is easing gear fitted Yes
 Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 20
 Spare Gear. Tubes 40 Gaskets or joints:—Manhole 10 Handhole 400 Handhole plates 20
 These drums are designated Steam drums 612-3 - 613-3
 Water " 612-1 613-1
612-2 613-2
 The foregoing is a correct description, Manufacturer.

Dates of Survey { During progress of work in shops - April 25-8-12-16-19-22-26-29 May 3-6-10-14-18 Is the approved plan of boiler forwarded herewith Yes
 while building { During erection on board vessel - June 10-24 Aug 2-10-16 Sept 16-20 Oct 18 Dec 21 Total No. of visits 25

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boilers have been satisfactorily installed on board the vessel, tested by hydraulic pressure to 341 lb with satisfactory results, the valves have been adjusted under steam to 227 lb. In my opinion the boilers are eligible to receive the record of 2 WTD B 227 lb.

Survey Fee ... \$300.00 When applied for, 7th Jan 1938
 Travelling Expenses (if any) \$10.00 When received, 19-5-1938
80% to NY
80% to Phila.
 Committee's Minute NEW YORK JAN 26 1938
 Assigned 2 WTD B-227 lb
 Engineer Surveyor to Lloyd's Register of Shipping.



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