

# REPORT ON WATER TUBE BOILERS.

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Writing Report 22nd Feb., 1950 When handed in at Local Office 28th Feb., 1950 Port of Baltimore, Maryland  
 Survey held at Sparrows Point, Maryland Date, First Survey 16th June, 1949 Last Survey 14th February 1950  
 on the S.S. "SAN TOME" Shipyard Inc. Tons { Gross 17902 Net 11068  
 Sparrows Point, Maryland By whom built Bethlehem Sparrows Point/ When built 1950  
 made at Quincy, Mass. By whom made Bethlehem Steel Company When made 1949  
 made at Carteret, N.J. By whom made Foster Wheeler Corp. When made 1949  
 al Horse Power 3240 Owners Afran Transport Co. Port belonging to Monrovia

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Company  
 of Approval of plan 13th December, 1948, New York Number and Description or Type  
 Low Pressure Steam Generator L.P. St. Working Pressure 125 Tested by Hydraulic Pressure to 250 Date of Test 5th Dec. 1949  
 Certificate AB 148\* JRT 7-49. Can each boiler be worked separately One only Total Heating Surface of Boilers 355 sq. ft.

ed draught fitted - Area of fire grate (coal) in each boiler Unfired  
 and type of burners (oil) in each boiler None L.P. St. per rule - No. and description of safety valves on  
 .P. St. Gen. One 4" angle relief valve Area of each set of valves per boiler Gen. as fitted 12.56 Pressure to which they

adjusted 125 p.s.i. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter  
 donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler -  
 and Length 9' - 10 5/8" Steam Drums: Number in each boiler One Inside diameter 4'-5"  
 mess of plates 1/2" Range of Tensile Strength 55,000 - 65,000 p.s.i. Are drum shell plates welded  
 aged Welded If fusion welded, state name of welding firm Bethlehem Steel Company Have all the requirements of the rules

Class I vessels been complied with - Description of riveting: Cir. seams - long. seams - Percentage strength of  
 eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -  
 joint: Plate 90% Rivet - Diameter of tube holes in drum - Pitch of tube holes -

ntage strength of shell in way of tubes Steam Drum Heads or Ends: Range of tensile strength 55,000 - 65,000  
 mess of plates Front Hd. 5/8" Back Hd. 1/2" Radius or how stayed 48" Dished Size of manhole 12" x 16" Water Drums: Number  
 th boiler - Inside Diameter - Thickness of plates - Range of tensile strength - Are drum shell plates

ed or flanged - If fusion welded, state name of welding firm - Have all the requirements of the rules  
 Class I vessels been complied with - Description of riveting: Cir. seams - long. seam -  
 eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Pitch of tube holes -

ntage strength of long. joint: Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -  
 ntage strength of drum shell in way of tubes Water Drum Heads or Ends: Range of Tensile strength -  
 kness of plates Radius or how stayed - Size of manhole or handhole - Tested by Hydraulic Pressure to -

ders or Sections: Number - Material - Thickness - Number 147 Description of  
 es: Diameter 1" O.D. Thickness .072" O.S. Tube Sheet - 2 1/8" I.S. Tube Sheet - 2" Range of tensile  
 Outside tube sheet Inside tube sheet Thickness of shell plates 1.5" If fusion welded, state name of welding

gh 55,000 - 65,000 p.s.i. Description of longitudinal joint - Diameter of rivet holes -  
 Have all the requirements of the rules for Class I vessels been complied with - Plate Rivet -  
 of rivets - Thickness of straps - Percentage strength of long. Joint - Radius or how stayed -

wn or End Plates: Range of tensile strength - Thickness - Inside Diameter -  
 PERHEATER. Drums or Headers: Number in each boiler - Are drum shell plates welded  
 kness - Material - Range of tensile strength - Have all the requirements of the rules

anged - If fusion welded, state name of welding firm - long. seams -  
 Class I vessels been complied with - Description of riveting: Cir. seams - Percentage strength of  
 eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of  
 joint: Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

n shell in way of tubes Drum Heads or Ends: Thickness Range of tensile strength -  
 us or how stayed Size of manhole or handhole - Number, diameter, and thickness of tubes -  
 ed by Hydraulic Pressure to Date of Test - Is a safety valve fitted to each section of the superheater which  
 be shut off from the boiler No. and description of Safety Valves - Area of each set

alves - Pressure to which they are adjusted - Is easing gear fitted -  
 re Gear. Has the spare gear required by the rules been supplied -  
 L.P. Steam Generator Drain Cooler. The foregoing is a correct description,  
 ded Steel Shell 13" I.D. x 3/8" thick, 9' - 01/4" length. Manufacturer.  
 shed head and cast steel water box, L.P. St. Gen. Yes  
 tubes 5/8" O.D. x .065" thick - Arsenical Admiralty Metal. Is the approved plan of boiler forwarded herewith

ates } During progress of }  
 Survey } work in shops - }  
 hile } During erection on }  
 lding } board vessel - }  
 16 June, 7 July, 4 Nov. 5 Dec. 1949, 14 Feb. 1950 Total No. of visits 5

L.P. St. Gen. Yes If so, state vessel's name and report No. S.S. "JAHRA" Rept. No. 8911  
 his boiler a duplicate of a previous case. This Low Pressure Steam Generator is a horizontal,  
 GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
 o pass, shell and tube type unit with submerged tube heating surface. Shell, tube sheets, baffles of steel. Shell  
 ads and tube nest heads of cast steel, tubes of copper. Unit was built in accordance with the approved plans.  
 orkmanship and material throughout are good and unit was hydrostatically tested in place on board with all fittings and  
 piping, and examined under steam working conditions.  
 Forwarded herewith—Arrangement L.P. Steam Generator.

Survey Fee £ - : : When applied for, 19  
 Travelling Expenses (if any) £ - : : When received, 19  
 Committee's Minute  
 signed See First Entry Report attached.  
 NEW YORK MAR 15 1950  
 Lloyd's Register Foundation