

REPORT ON WATER TUBE BOILERS

LOW PRESSURE STEAM GENERATOR.

No. 8911

Received at London Office

18 AUG 1949

Date of writing Report 3rd June, 1949 When handed in at Local Office 3rd June, 1949 Port of Baltimore, Maryland.
 No. in Survey held at Baltimore, Maryland. Date, First Survey 4th April Last Survey 2nd June, 1949
 Reg. Bk. on the S.S. "JAHRA" (Number of Visits 4) Tons {Gross 17905
 Built at Sparrows Point, Maryland. By whom built Shipyard, Inc., Bethlehem Sparrows Point When built 1949
 Engines made at Quincy, Mass. By whom made Bethlehem Steel Co., When made 1948
 Boilers made at Carteret, N.J. By whom made Foster Wheeler Corp., When made 1948
 Nominal Horse Power 3240 Owners Kupan Transport Co., Port belonging to _____

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

Date of Approval of plan 13th December, 1948, New York. Number and Description or Type of Boilers Low Pressure, Steam Generator. Working Pressure 125 Tested by Hydraulic Pressure to 250 Date of Test 25th Apr. 1949

No. of Certificate R WP 623/23.2.49 L.P. St. Gen. Can each ~~boiler~~ be worked separately one only Total Heating Surface of Boilers 355 sq. ft.

Is forced draught fitted - Area of fire grate (coal) in each Boiler Unfired

No. and type of burners (oil) in each boiler _____ No. and description of safety valves on each boiler One - 4" angle relief valve.

Area of each set of valves per boiler {per rule _____ as fitted 12.56 Pressure to which they are 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 the donkey boiler _____

Smallest distance between boilers or uptakes and bunkers or woodwork _____ Height of boiler _____

Length 9' - 10 5/8" Steam Drums:—Number in each boiler One Inside diameter 4' 5"

Thickness of plates 1/2" Range of Tensile Strength 55,000 - 65,000 Are drum shell plates welded or flanged welded

If fusion welded, state name of welding firm Bethlehem Steel Co., Have all the requirements of the rules for Class I vessels been complied with Yes

Description of riveting:—Cir. seams _____ long. seams _____

Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Thickness of straps _____ Percentage strength of long. joint:—Plate 90% Rivet _____

Diameter of tube holes in drum _____ Pitch of tube holes _____

Percentage strength of shell in way of tubes _____ Steam Drum Heads or Ends:—Range of tensile strength 55,000 - 65,000

Thickness of plates Front HD. = 5/8" Back HD. = 3/4" Radius or how stayed 48" Dished Radius of manhole 12" x 16" Water Drums:—Number in each boiler _____

Inside Diameter _____ Thickness of plates _____ Range of tensile strength _____ Are drum shell plates welded or flanged _____

If fusion welded, state name of welding firm _____ Have all the requirements of the rules for Class I vessels been complied with _____

Description of riveting:—Cir. seams _____ long. seam _____

Diameter of rivet holes in long. seams _____ Pitch of rivets _____ 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:—Range of Tensile strength _____

Thickness of plates _____ Radius or how stayed _____ Size of manhole or handhole _____

Headers or Sections:—Number _____ Material _____ Thickness _____ Tested by Hydraulic Pressure to _____

Tubes:—Diameter 1" O.D. Thickness .072" Number 147 Steam Dome or Collector:—Description of _____ Range of tensile strength _____

Inside Tube Sheet _____ Inside diameter 2" - 5 9/16" Thickness of _____ 0.S. Tube Sheet - 2 1/8" 1. S. Tube Sheet - 2"

Description of longitudinal joint _____ If fusion welded, state name of welding firm _____

Have all the requirements of the rules for Class I vessels been complied with _____ Diameter of rivet holes _____

Pitch of rivets _____ Thickness of straps _____ Percentage strength of long. joint:—Plate _____ Rivet _____

Crown or End Plates:—Range of tensile strength _____ Thickness _____ Radius or how stayed _____

SUPERHEATER. Drums or Headers:—Number in each boiler _____ Inside Diameter _____

Thickness _____ Material _____ Range of tensile strength _____ Are drum shell plates welded or flanged _____

If fusion welded, state name of welding firm _____ Have all the requirements of the rules for Class I vessels been complied with _____

Description of riveting:—Cir. seams _____ long. seams _____

Diameter of rivet holes in long. seams _____ Pitch of rivets _____ 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 _____

Drum Heads or Ends:—Thickness _____ Range of tensile strength _____

Radius or how stayed _____ Size of manhole or handhole _____ Number, diameter, and thickness of tubes _____

Tested by Hydraulic Pressure to _____ Date of Test _____ Is a safety valve fitted to each section of the superheater which can be shut off from the boiler _____

No. and description of Safety Valves _____ Area of each set of valves _____

Pressure to which they are adjusted _____ Is easing gear fitted _____

Spare Gear. Has the spare gear required by the rules been supplied _____

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building } 4, 8, and 25 April, 2 June, 1949.
 L.P. Steam Generator Is the approved plan of ~~boiler~~ forwarded herewith NO
 Will be forwarded with last Sister Ship Hull 4471
 Total No. of visits 4

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, &c.) This L.P. Steam Generator is a horizontal, two pass, shell and tube type unit with submerged tube heating surface. Shell heads, tube sheets, baffles, of steel, Tubes of copper - nickel and tube nest heads of Cast Steel. Unit was built under Special Survey in accordance with the approved plans, the workmanship and material throughout are good and was hydrostatically tested in place on board with all fittings and piping and examined under steam working conditions.

Survey Fee £ - : - : } When applied for, 19
 Travelling Expenses (if any) £ - : - : } When received, 19

Committee's Minute _____
 Assigned See First Entry Report attached -
 NEW YORK JUL 27 1949
 C. H. Haman
 Engineer Surveyor to Lloyd's Register of Shipping.

