

REPORT ON WATER TUBE BOILERS

No. 8911

Received at London Office

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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) { Gross 17905
Tons { Net 11071

Built at Sparrows Point, Maryland. By whom built Bethlehem Sparrows Point Shipyard, Inc., 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 12.56 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" Dised Radius of manhole ~~or handhole~~ 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 Outside Tube Sheet Inside Tube Sheet Inside diameter 2" - 5 9/16" Thickness of O.S. Tube Sheet - 2 1/8" I.S. Tube Sheet - 2" Range of tensile strength 55,000 - 60,000 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 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

building { During erection on board vessel - - - }

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

Engine Surveyor to Lloyd's Register of Shipping.

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