

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 7654

Received at London Office 23 JUN 1942

Date of writing Report 16th Apr. 1942 When handed in at Local Office 16th Apr. 1942 Port of Baltimore, Maryland

No. in Survey held at Baltimore, Maryland Date, First Survey 3rd Feb. 1941 Last Survey 2nd Jan. 1942

Reg. Bk. on the S.S. "CATAWBA" (No. 4356) (Number of Visits 3) Tons { Gross 9930 Net 5907

Built at Sparrows Point, Md. By whom built Bethlehem Steel Co. When built 1941

Engines made at Essington, Pa. By whom made Westinghouse E. & M. CO. When made 1941

Boilers made at Carteret, N. J. By whom made Foster Wheeler Corp. When made 1941

Nominal Horse Power 1884 Owners Socony - Vacuum Oil Co. Port belonging to New York

~~WATER TUBE BOILERS~~ **SMALL COMPRESSED AIR TANK** MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Bethlehem Steel Company

Date of Approval of plan January 18th, 1939 Number and Description or Type

~~of Boilers~~ One 30" Intr. Dia. Air Tank Working Pressure 100 lbs. Tested by Hydraulic Pressure to 200 lbs. Date of Test 6 Mar. 1941

No. of Certificate - Can ~~each boiler~~ the tank be worked separately Yes Total Heating Surface of Boilers 30 cubic ft.

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

No. and type of burners (oil) in each boiler - No. and description of safety valves on the tank

~~each boiler~~ One 1" spring loaded Area of each set of valve approx. .7854 sq. in. Pressure to which they are adjusted 100 lbs.

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 boiler ~~or donkey boiler~~ and bulkhead 9" Height of boiler - Width and Length -

Steam Drums:—Number in each ~~boiler~~ One Inside diameter 30" Thickness of plates 5/16

Range of Tensile Strength 54300 lbs. per sq. in. Are drum shell plates welded or flanged Welded Description of riveting:—

Cir. seams Fusion weld long. seams Fusion Weld 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 90% Rivet allowed

Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of shell in way of tubes -

Working pressure by rules - **Steam Drum Heads or Ends:**—Range of tensile strength 50000 min Thickness of plates 5/16

Radius or how stayed 30" radius Size of manhole or handhole 4-7/8 x 3-1/4 Working pressure by rules - **Water Drums:**—Number

in each boiler - Inside Diameter - Thickness of plates - Range of tensile strength - Are drum shell plates

welded or flanged - Description of riveting:—Cir. seams - long. seam - 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 - Working pressure by rules - **Water Drum Heads or Ends:**—Range of

Tensile strength - Thickness of plates - Radius or how stayed -

Size of manhole or handhole - Working pressure by rules - **Headers or Sections:**—Number -

Material - Thickness - Tested by Hydraulic Pressure to - **Tubes:**—Diameter -

Thickness - Number - **Steam Dome or Collector:**—Description of Joint to Shell -

inside diameter - Thickness of shell plates - Range of tensile strength -

Description of longitudinal joint - Diameter of rivet holes - Pitch of rivets - Lap of plate or width of

butt straps - Thickness of straps - Percentage strength of long. joint:—Plate - Rivet -

Working Pressure of shell by rules - **Crown or End Plates:**—Range of tensile strength -

Thickness - Radius or how stayed - Working pressure by rules -

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

Thickness - Material - 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 - Working pressure by rules - **Drum Heads or Ends:**—

Thickness - Range of tensile strength - Radius or how stayed - Size of manhole or handhole -

Working pressure by rules - 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 -

BETHLEHEM-SPARROWS POINT SHIPYARD, INC. SPARROWS POINT, MD.

The foregoing is a correct description,

J. A. Hodge

Manufacturer.

Dates of Survey { During progress of work in shops - - } Feb. 3rd, March 6th, 1941 Is the approved plan of ~~boiler~~ the tank forwarded herewith No

{ During erection on board vessel - - } 2nd Jan. 1942 Total No. of visits 3

Is this ~~boiler~~ Tank a duplicate of a previous case Yes If so, state vessel's name and report No. Corsicana 7540, Caddo 7585 Calusa 7623

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This small air tank for compressed air system has been constructed under special survey and in accordance with the approved plan. The workmanship and material is good. The tank has now been installed on vessel and seen under working conditions.

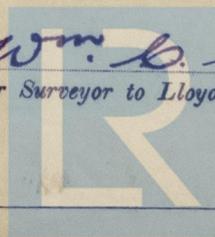
Survey Fee ... £ : \$40.00 When applied for, Mar. 20, 1942

Travelling Expenses (if any) £ : 5.00 When received, Apr. 24, 1942

Committee's Minute NEW YORK MAY 27 1942

signed See attached first entry Rpt.

Wm. B. Cowin
Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

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