

# REPORT ON WATER TUBE BOILERS

3 APR 1950

Received at London Office

5c.

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 11th February, 1949 Last Survey 14th February 1950

on the S.S. "SAN TOME" (Number of Visits 4) Gross Tons 17902 Net Tons 11068

At Sparrows Point, Maryland By whom built Bethlehem Sparrows Point Shipyards/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

Indicated Horse Power 3240 Owners Afran Transport Co. Port belonging to Monrovia

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

Approval of plan 3rd October, 1948, New York. Number and Description or Type 250 p.s.i. Air Tank Date of Test 14 Feb. 1949

One Compressed Air Tank Working Pressure 125 p.s.i. Tested by Hydraulic Pressure to 250 p.s.i.

Heads 75K709832518 AB X211 Total Heating Surface of Boilers Air Tank

Shell 75K518844386/Can each boiler be worked separately. Tank Unfired

draught fitted. Area of fire grate (coal) in each Tank

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

One 1/2" Relief Valve Area of ~~xxxxxx~~ valves per Tank per rule as fitted .196 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 Cap Tank 30 cu.ft

Smallest distance between boilers or uptakes and bunkers or woodwork. Hexagon of ~~xxxx~~ 35 1/4"

Length 5' - 3 1/2" Air Steam Drums:—Number in each boiler One Inside diameter 35 1/4"

Thickness of plates 3/8" Range of Tensile Strength 55,000 - 65,000 p.s.i. Are drum shell plates welded

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 Yes Description of riveting:—Cir. seams Fusion Weld long. seams Fusion Weld

Pitch of rivets. Thickness of straps. Percentage strength of

joint:—Plate 80% Rivet Diameter of tube holes in drum Pitch of tube holes

Percentage strength of shell in way of tubes. Air Steam Drum Heads or Ends:—Range of tensile strength 55,000-65,000 p.s.i.

Thickness of plates 3/8" Radius or how stayed Size of manhole or handhole 5" flanged pipe opening Water Drums:—Number

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

Class I vessels been complied with Description of riveting:—Cir. seams long. seam

Pitch of rivets. Thickness of straps. Percentage strength of

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

Number of Sections:—Number Material Thickness Tested by Hydraulic Pressure to

Steam Dome or Collector:—Description of

Diameter Thickness Number Range of tensile

to Shell Inside diameter Thickness of shell plates

Length Description of longitudinal joint If fusion welded, state name of welding

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

Thickness of straps Percentage strength of long. joint Plate Rivet

Thickness of straps Percentage strength of long. joint Plate Rivet

OWN OR END PLATES:—Range of tensile strength Thickness Radius or how stayed

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

Thickness Material Range of tensile strength Are drum shell plates welded

Welded 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. 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

in 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

be shut off from the boiler No. and description of Safety Valves Area of each set

valves Pressure to which they are adjusted Is easing gear fitted

are Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description, Manufacturer.

Is the approved plan of ~~xxxx~~ tank forwarded herewith Yes

Dates During progress of work in shops 11-14 February, 1949. Total No. of visits 4

While erection on board vessel 18 October, 1949 14 February, 1950.

Tank Yes If so, state vessel's name and report No. "JAHRA" No. 8911, "BURGAN" No. 8939 & "CORO" No. 9044.

is ~~xxxx~~ a duplicate of a previous case. This small tank for compressed air system has been

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

Constructed under Special Survey and in accordance with the approved plan. The workmanship and materials are good.

Tank has been installed on board the vessel and seen under working conditions.

Compressed Air Tank Plan forwarded herewith.

Survey Fee £ - : : When applied for, 19

Travelling Expenses (if any) £ - : : When received, 19

Committee's Minute NEW YORK MAR 15 1950

Signed See First Entry Report attached

C. H. Haman Engineer Surveyor to Lloyd's Register of Shipping.

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