

REPORT ON WATER-TUBE BOILERS

21 MAY 1942

Date of writing Report 18th Dec. 19 41 When handed in at Local Office 19th Dec. 19 41 Port of Baltimore, Maryland

No. in Survey held at Sparrows Point, Md. Date, First Survey 3rd Feb. 1941 Last Survey 16th May, 19 41

Reg. Bk. on the S. S. "CADD" (No. 4354) (Number of Visits 3) Gross 2890 Tons Net 5928

Built at Sparrows Point, Maryland By whom built Bethlehem Steel Company 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 2337 Owners Socony-Vacuum Oil Co. Port belonging to New York, N. Y.

SMALL COMPRESSOR AIR TANK Manufacturers of Steel Bethlehem Steel Co.

Date of Approval of plan January 18th, 1939 Number and Description or Type one 30" Intr. Dia. Air Tank

Working Pressure 100 lbs. Tested by Hydraulic Pressure to 200 lbs. Date of Test 6-3-41
No. of Certificate - Can the tank be worked separately Yes Total cubic capacity of air tank 30 cu. 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 tank and bulkhead

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 tank and bulkhead 9" Height of boiler - Width and Length -

Steam Drums: - Number in each boiler One 1" Spring loaded Area of each set of valves approx. 7654 sq. in. 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 -

Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of shell in way of tubes -
Working pressure by rules - Range of tensile strength 50000 min Thickness of plates 5/16

Radius or how stayed 30" Size of handhole 4-7/8 x 3-1/4 Working pressure by rules - Water Drums: - Number in each boiler -

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 -

Lap of plates or width of butt straps - Thickness of straps - Diameter of rivet holes in long. seams - Pitch of rivets -

Percentage strength of long. joint: - Plate - Rivet - Diameter of tube holes in drum - Thickness of straps -
Percentage strength of drum shell in way of tubes - Working pressure by rules - Pitch of tube holes -

Tensile strength - Thickness of plates - Working pressure by rules - Water Drum Heads or Ends: - Range of tensile strength -

Size of manhole or handhole - Radius or how stayed - 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 -

Working Pressure of shell by rules - Thickness of straps - Percentage strength of long. joint: - Plate - Rivet -
Thickness - Radius or how stayed - Crown or End Plates: - Range of tensile strength - 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 - Diameter of rivet holes in long. seams - Pitch of rivets -

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 -

The foregoing is a correct description, J. A. Hodge Manufacturer.

Dates of Survey while building: During progress of work in shops 3rd Feb., 6th March, 1941; During erection on board vessel 16th May, 1941. Is the approved plan of Tank forwarded herewith No. Total No. of visits 3

Is this Tank a duplicate of a previous case Yes If so, state vessel's name and report No. "MOBILUBE" 6625

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) 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 are good. The tank has now been installed on vessel and seen under working conditions.

Fee £ 40.00 Travelling Expenses (if any) £ 5.00 When applied for Dec. 18, 19 41 When received 19

Committee's Minute Assigned See attached Trust buty list. Robert W. Stevenson Engineer Surveyor to Lloyd's Register of Shipping.

