

REPORT ON WATER TUBE BOILERS.

No. 8528

27 OCT 1947

Received at London Office.

Writing Report 16th Sept. 1947 When handed in at Local Office 23rd Sept. 1947 Port of Baltimore, Maryland
 Survey held at Baltimore, Maryland Date, First Survey June 25th, 1947 Last Survey September 2nd, 1947
 on the S.S. "OAKLAND" (ex "David T. Barry") (Number of Visits 3) {Gross 7176
 Tons {Net 4380
 Portland, Oregon By whom built Oregon Shipbuilding Corp. When built 1943
 made at Portland, Oregon By whom made Iron Fireman Mfg. Company When made 1943
 made at Saginaw, Michigan By whom made Wickes Boiler Company When made 1943
 Horse Power 660 Owners Holman and Vaboen Port belonging to Oslo

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens and Carnegie Steel Company

Approval of plan -
 No. and Description or Type
 Two (2) B and W - W.T. Cross drum Working Pressure 240 Tested by Hydraulic Pressure to 375 Date of Test 27-9-47
 Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 9704 square feet
 Draught fitted Yes Area of fire grate (coal) in each Boiler -
 Type of burners (oil) in each boiler Four (4) Todd Hex Press No. and description of safety valves on
 One (1) Twin Consolidated Area of each set of valves per boiler {per rule 23.79 sq. in.
 {as fitted 25.132 sq. in. Pressure to which they
 240 lbs. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 16' 5 5/8"
 Length 14' 7 3/4" x 18' 7 1/2" Steam Drums:—Number in each boiler One Inside diameter 49" A936
 Thickness of plates 15/16" Range of Tensile Strength 70,000 lbs. Are drum shell plates welded
 If fusion welded, state name of welding firm Combustion Engineering Co., N. Y. Have all the requirements of the rules
 I vessels been complied with Built under A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seams -
 Pitch of rivets - Thickness of straps - Percentage strength of
 Diameter of tube holes in drum 4 1/64" Pitch of tube holes 7"
 Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs.
 Radius or how stayed 38" Size of manhole or handhole 12" x 16" Water Drums:—Number
 Inside Diameter Square header Thickness of plates 3/4" Range of tensile strength 60,000-70,000 Are drum shell plates
 If fusion welded, state name of welding firm - Have all the requirements of the rules
 I vessels been complied with A.B.S. and U.S.C.G. Description of riveting:—Cir. seams - long. seam -
 Pitch of rivets - Thickness of straps -
 Diameter of tube holes in drum header 4 1/32" Pitch of tube holes 7"
 Water Drum Heads or Ends:—Range of Tensile strength -
 Radius or how stayed - Size of manhole or handhole -
 Number 22 Material Steel Thickness 9/16" Tested by Hydraulic Pressure to 375 lbs.
 Diameter 2" and 4" Thickness 10 and 6 B.W.G. Number 602 and 44 Steam Dome or Collector:—Description of
 Inside diameter - Thickness of shell plates - Range of tensile
 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 -
 Range of tensile strength - Thickness - Radius or how stayed -
 Drums or Headers:—Number in each boiler Two (2) Inside Diameter 6" square
 Material Steel Range of tensile strength 60,000 - 70,000 Are drum shell plates welded
 Forged If fusion welded, state name of welding firm - Have all the requirements of the rules
 I vessels been complied with A.B.S. and U.S.C.G. Description of riveting:—Cir. seams - long. seams -
 Pitch of rivets - Thickness of straps - Percentage strength of
 Diameter of tube holes in drum 2 1/14" Pitch of tube holes 3 3/4" Percentage strength of
 Drum Heads or Ends:— Thickness - Range of tensile strength -
 Size of manhole or handhole - Number, diameter, and thickness of tubes 22, 2", 10 B.W.G.
 Hydraulic Pressure to 375 lbs. Date of Test 7-27-43 Is a safety valve fitted to each section of the superheater which
 but off from the boiler Yes No. and description of Safety Valves One High Lift Area of each set
 1.76 Pressure to which they are adjusted 230 lbs. Is easing gear fitted Yes

Gear. Has the spare gear required by the rules been supplied Yes
 The foregoing is a correct description,
 Manufacturer.

During progress of work in shops - Is the approved plan of boiler forwarded herewith Yes
 During erection on board vessel - Total No. of visits

Boiler a duplicate of a previous case Yes If so, state vessel's name and report No. S.S. "CAPTAIN FARMAKIDES" (ex "James M. Goodhue")

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The W.T. boilers described above have, together with fittings, been opened up, examined throughout and placed in order, and again examined under steam, and the safety valves adjusted. It is the opinion of the undersigned that the workmanship is good, the boilers well installed, and they are to be classed with the Society, with record of BS 8-47, subject to feed water regulators being fitted to Port and Starboard boilers.

Fee \$ 115:00 : When applied for, 23 Sept. 1947
 Selling Expenses (if any) £ 5:25 : When received, - 19

Committee's Minute
 2 W.T.B. - 240 lbs.

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