

REPORT ON WATER TUBE BOILERS.

No. 1381

Received at London Office.

1 APR 1950

Report made at Barberton, Ohio When handed in at Local Office 19 March 21 Port of Cleveland, Ohio
 Date, First Survey March 21 Last Survey May 2, 1949
 Survey held at Barberton, Ohio (Number of Visits 9) Gross Tons - Net Tons -
 on the Tanker - Hull 573 - Two Main W.T. Boilers
 Chester, Pennsylvania By whom built Sun Shipbuilding & Dry Dock Co. When built -
 Made at Barberton, Ohio By whom made Babcock & Wilcox Co. When made 1949
 Owners - Port belonging to -

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth Steel Co.
 Approval of plan Dec. 28, 1948 Feb. 1, 1949 Number and Description or Type 2 Marine (2) Drum Type
 Working Pressure 685 psi Tested by Hydraulic Pressure to 1028 psi Date of Test -
 Certificate - Can each boiler be worked separately Yes Total Heating Surface of Boilers 930 sq. ft. each Superheat -
 draught fitted - Area of fire grate (coal) in each Boiler Four (4) Straight Mechanical No. and description of safety valves on -
 type of burners (oil) in each boiler - Area of each set of valves per boiler - Pressure to which they -
 Are they fitted with easing gear - 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 22' - 6"
 Steam Drums:—Number in each boiler One Inside diameter 46 27/32"
 Range of Tensile Strength 70,000 Minimum Are drum shell plates welded -
 If fusion welded, state name of welding firm Babcock and Wilcox Co. Have all the requirements of the rules -
 Description of riveting:—Cir. seams No Riveting long. seams -
 Thickness of straps - Percentage strength of -
 Diameter of tube holes in drum 1 1/4" - 2" - 3 1/4" of tube holes 1.75"
 Range of tensile strength 70,000 min.
 Size of manhole or handhole 12" x 16" Water Drums:—Number -
 Range of tensile strength 70,000 min. Are drum shell plates welded -
 Have all the requirements of the rules -
 Description of riveting:—Cir. seams No Riveting long. seam -
 Thickness of straps -
 Diameter of tube holes in drum 1 1/4" - 2" - 3 1/4" of tube holes 1.75"
 Range of tensile strength 70,000 Min.
 Size of manhole or handhole 12" x 16"
 Tested by Hydraulic Pressure to 1370 psi
 Steam Dome or Collector:—Description of -
 Range of tensile -
 If fusion welded, state name of welding -
 Diameter of rivet holes -
 Plate - Rivet -
 Thickness of straps - Radius or how stayed -
 Range of tensile strength -
 Inside Diameter 5 1/4" square
SUPERHEATER. Drums or Headers:—Number in each boiler 3 Are drum shell plates welded -
 Range of tensile strength 70,000 min. Have all the requirements of the rules -
 Description of riveting:—Cir. seams - long. seams -
 Thickness of straps - Percentage strength of -
 Pitch of tube holes - Percentage strength of -
 Thickness - Range of tensile strength -
 Size of manhole or handhole 3 3/4" x 3 3/8" Number, diameter, and thickness of tubes 148-1 1/4" x .135"
 Is a safety valve fitted to each section of the superheater which -
 Area of each set -
 Is easing gear fitted -

The foregoing is a correct description.
 MB 4341 Boiler No. 1 and 2

During progress of work in shops - Mar. 21, 28, 31, April 7, 6, 20, 21, 27, May 2, 1949
 During erection on board vessel - Total No. of visits 9

Is boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Sun Hulls 570-576
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler components consisting of Drums, superheater, waterwall and economizer headers were built in accordance with approved drawings and under Special Survey during construction by Surveyors to this Society. The workmanship is satisfactory throughout and it is recommended that the Boilers become part of the machinery of a classed vessel with the notation in the Register Book of (2) WTB 685 psi SPT.
 Travelling Expenses (if any) \$ 65 00 When received, 19
 Charged fee to be charged by Philadelphia Surveyors.
 Committee's Minute -
 signed PHL. RPT. NO. 9401 attached
 NEW YORK MAR 8 - 1950
 Acting Surveyor to Lloyd's Register
 Engineer Surveyor to Lloyd's Register of Shipping.

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