

REPORT ON WATER TUBE BOILERS.

No. 9401

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Report 6th Jan., 1950 When handed in at Local Office 6th Jan., 1950 Port of PHILADELPHIA, PA.
 Survey held at Chester, Pa. Date, First Survey October 28, Last Survey December 12, 1949
 on the Tanker - S.S. "SOVAC BRILLIANT" - Sun Hull #573
 Chester, Pa. By whom built Sun S.B. & D.D. Co. When built 1949
 made at Wellsville, N. Y. By whom made Worthington Pump & Mach'y Co. When made 1942
 made at Barberton, Ohio By whom made Babcock & Wilcox Co. When made 1949
 Horse Power 3096 Owners Tankers Navigation Company Port belonging to Panama

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth Steel Company
 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 17th Nov. 1949
 Certificate P-815, S-816 Can each boiler be worked separately Yes Total Heating Surface of Boilers 2040 sq. ft. Economizer 7390 sq. ft. Boiler
 draught fitted Area of fire grate (coal) in each boiler No. and description of safety valves on
 type of burners (oil) in each boiler Four (4) Straight Mechanical Area of each set of valves per boiler {per rule - Pressure to which they
 as fitted -
 Are they fitted with easing gear - In case of donkey boilers state whether steam from main boilers can enter
 Height of boiler 22'-6"
 Smallest distance between boilers or uptakes and bunkers or woodwork -
 Inside diameter 46 27/32" average
 Steam Drums:—Number in each boiler One Range of Tensile Strength 70,000 Minimum Are drum shell plates welded
 Wrapper 1-3/16" Tube 3-3/4" Range of Tensile Strength 70,000 Minimum Have all the requirements of the rules
 Welded If fusion welded, state name of welding firm Babcock and Wilcox Company Description of riveting:—Cir. seams No Riveting long. seams -
 Yes Description of riveting:—Cir. seams No Riveting long. seams -
 Thickness of straps - Percentage strength of
 Pitch of rivets - Diameter of tube holes in drum 1-1/4"-2"-3-1/4" Pitch of tube holes 1.75"
 Range of tensile strength 70,000 min.
 Steam Drum Heads or Ends:—Range of tensile strength 70,000 min. Water Drums:—Number
 Size of manhole or handhole 12" x 16" Are drum shell plates welded
 Radius or how stayed ellipsoidal Tube 2-1/2" Range of tensile strength 70,000 min. Have all the requirements of the rules
 Thickness of plates Tube 2-1/2" Range of tensile strength 70,000 min. Have all the requirements of the rules
 Inside Diameter 29 5/8" Thickness of plates Tube 2-1/2" Range of tensile strength 70,000 min. Have all the requirements of the rules
 If fusion welded, state name of welding firm Babcock and Wilcox Co. long. seam -
 Description of riveting:—Cir. seams No Riveting long. seam -
 Pitch of rivets - Thickness of straps -
 Diameter of tube holes in drum 1-1/4"-2"-3-1/4" Pitch of tube holes 1.75"
 Range of tensile strength 70,000 min.
 Water Drum Heads or Ends:—Range of Tensile strength 70,000 Min. Size of manhole or handhole 12" x 16"
 Radius or how stayed ellipsoidal Tested by Hydraulic Pressure to 1370 psi
 Thickness .875" Number 1422 Steam Dome or Collector:—Description of
 Material Carbon steel Thickness 8 BWG. Number 71 Range of tensile
 Inside diameter - Thickness of shell plates -
 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 Yes Diameter of rivet holes -
 Plate - Rivet -
 Thickness of straps - Percentage strength of long. joint - Radius or how stayed -
 Range of tensile strength 70,000 min. 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
 Material Carbon Steel Chrome Moly long. seams -
 If fusion welded, state name of welding firm - Description of riveting:—Cir. seams -
 Yes Description of riveting:—Cir. seams -
 Thickness of straps - Percentage strength of
 Pitch of rivets - Diameter of tube holes in drum 1.275" Pitch of tube holes 1 1/4" Percentage strength of
 joint:—Plate - Rivet - Thickness - Range of tensile strength -
 shell in way of tubes .310% Drum Heads or Ends:—Number, diameter, and thickness of tubes 148-1 1/4" x .135"
 Size of manhole or handhole 3-3/4" x 3-3/8" Is a safety valve fitted to each section of the superheater which
 Date of Test - Area of each set
 No. and description of Safety Valves - Is easing gear fitted -
 Pressure to which they are adjusted -

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

MB 4341 Boiler No. 1 and 2
 Is the approved plan of boiler forwarded herewith No
 Total No. of visits 17
 During progress of work in shops - Mar. 21, 28, 31, Apr. 7, 6, 20, 21, 27, May 2, 1949
 During erection on board vessel - Oct. 2, 28, Nov. 3, 10, 17, 25, 28, & Dec. 1 & 12, 1949

Is this 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 above boilers have been satisfactorily
 installed on board the vessel, tested by hydraulic pressure to 1078 lbs. and found in good order.
 The safety valves have been adjusted under steam to 685 lbs. on the boilers, and 627 lbs. on the
 superheaters. It is recommended that these boilers receive the record of 2 WT.B 685 lbs. (SPT).
 Survey Fee \$ 110.00 : When applied for, 4 Jan. 1950
 Travelling Expenses (if any) \$ 20.00 : When received, per F.A.G. 19
 Cleveland A/C 290.00
 Committee's Minute
 Signed 2 WT.B - 685 LBS. (SPT)
 NEW YORK MAR 8 - 1950
 Lloyd's Register Foundation