

REPORT ON WATER TUBE BOILERS.

No. 9412

Received at London Office. 3 APR 1950

Reporting Office 9th Feb., 1950 When handed in at Local Office 9th Feb., 1950. Port of PHILADELPHIA, PA.
 Survey held at Chester, Pa. Date, First Survey 2nd Dec., 1949 Last Survey 16 Jan., 1950
 on the S.S. "SOVAC COMET" (Number of Visits 7) {Gross 17597.94 Tons {Net -
 made at Chester, Pa. By whom built Sun SB & DD Co. When built 1949- 50
 made at Trenton, N.J. By whom made De Laval Steam Turbine When made 1949
 made at Barberton, Ohio By whom made Babcock & Wilcox When made 1949
 Horse Power 3096 Owners Tankers Navigation Co. Port belonging to Panama

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth Steel Co.
 Dec. 28, 1948, Feb. 2, 1949

Approval of plan 2 Marine (2) Drum Type Working Pressure 685 psi Tested by Hydraulic Pressure to 1028 psi Date of Test 23 Dec. '49
 Certificate P 818 S 817 Can each boiler be worked separately yes Total Heating Surface of Boilers 930 sq. ft. ea. superheater
 draught fitted - Area of fire grate (coal) in each Boiler 2040 " " " economizer
 type of burners (oil) in each boiler Four (4) straight mechanical No. and description of safety valves on
 2-2" each blr. 1-1 1/2" each superhtr. Area of each set of valves per boiler {per rule - Pressure to which they
 as fitted -

685# blrs. Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter
 # superheaters Smallest distance between boilers or uptakes and bunkers or woodwork 4 ft. Height of boiler 22' 6"

Manuf. Length 17' 2" Steam Drums:—Number in each boiler one Inside diameter 46 27/32" average
 of plates Wrapper 1 3/16" Tube - 3/4" Range of Tensile Strength 70,000 minimum Are drum shell plates welded
 welded If fusion welded, state name of welding firm Babcock & Wilcox Co. Have all the requirements of the rules

1 vessels been complied with yes Description of riveting:—Cir. seams no riveting long. seams -
 of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of

Plate Rivet Diameter of tube holes in drum 1 1/4" - 3 1/4" Pitch of tube holes 1.75"
 ge strength of shell in way of tubes 27.14" Steam Drum Heads or Ends:—Range of tensile strength 70,000 Min.

ss of plates 1 13/16" Radius or how stayed ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number
 boiler One Inside Diameter 29 5/8" Thickness of plates 3/4" Range of tensile strength 70,000 Min. Are drum shell plates

or flanged welded If fusion welded, state name of welding firm see above Have all the requirements of the rules
 1 vessels been complied with yes Description of riveting:—Cir. seams long. seam -

of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 ge strength of long. joint:—Plate Rivet Diameter of tube holes in drum 1 1/4" - 2" - 3 1/4" Pitch of tube holes 1.75"

ge strength of drum shell in way of tubes 27.14% Water Drum Heads or Ends:—Range of Tensile strength 70,000 Min.
 ss of plates Manhead 1 3/16" Blankhead Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"

Material O.H. Seamless Thickness .875" Tested by Hydraulic Pressure to 1370 psi
 Diameter Generating 1 25" Waterwall 2" Thickness 11 BWG 1422 Number 71 Steam Dome or Collector:—Description of

Shell 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 yes Diameter of rivet holes -
 rivets Thickness of straps Percentage strength of long. joint Plate Rivet

or End Plates:—Range of tensile strength Thickness Radius or how stayed
 Inside Diameter 5-1/4" square

ERHEATER. Drums or Headers:—Number in each boiler 3
 1.00" Material Carbon Steel Range of tensile strength 70,000 min. Are drum shell plates welded

ged seamless If fusion welded, state name of welding firm Have all the requirements of the rules
 1 vessels been complied with yes Description of riveting:—Cir. seams long. seams -

er of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 joint:—Plate Rivet Diameter of tube holes in drum 1 1/4" - 3 1/4" Pitch of tube holes 1.75" Percentage strength of

bell in way of tubes .310% Drum Heads or Ends:—Thickness Range of tensile strength
 or how stayed Size of manhole or handhole 3 3/4" x 3 3/8" Number, diameter, and thickness of tubes 148-1 1/4" x .135"

ied by Hydraulic Pressure to Date of Test Is a safety valve fitted to each section of the superheater which
 shut off from the boiler No. and description of Safety Valves Area of each set

ed over Pressure to which they are adjusted Is easing gear fitted
 e Gear. Has the spare gear required by the rules been supplied

MB 4342 Boilers No. 1 and 2 The foregoing is a correct description, Manufacturer.

During progress of work in shops - Apr. 7, May 11, 27, June 2, 3, 8, 10, 29 '49 Is the approved plan of boiler forwarded herewith No.
 During erection on board vessel - Dec. 2, 6, 9, 12, 20, 23, 1949, Jan. 16, 1950 Total No. of visits 15

boiler a duplicate of a previous case yes If so, state vessel's name and report No. S.S. "SOVAC BRILLIANT" - Phl. Rpt. 940

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boilers have been satisfactorily

talled on board the vessel, tested by hydraulic pressure to 1078 lbs. and found in good order.

safety valves have been adjusted under steam to 685 lbs. on the boilers and 627 lbs. on the

erheaters. It is recommended that these boilers receive the record of 2 WTB 685 lbs. (SPT).

Survey Fee \$ 110.00 : When applied for, 2 Feb. 1950
 Travelling Expenses (if any) £ 20.00 : When received, per F.A.C. 19
 Cleveland A/c \$290.00

Committee's Minute NEW YORK MAR 15 1950
 signed 2 WTB (SPT) 685 lbs.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
 Foundation