

REPORT ON WATER TUBE BOILERS.

No. 1383

Received at London Office 11 APR 1950

of writing Report. 19 When handed in at Local Office 19 Port of Cleveland, Ohio
to in Survey held at Barberton, Ohio Date, First Survey May 2, Last Survey August 16, 1949
g. Bk. on the Tanker - Hull 575 - Two Main W.T. Boilers S.S. Sovac Daylight (Number of Visits 6) (Gross Tons - Net -)
at Chester, Pennsylvania By whom built Sun Shipbldg. & Dry Dock Co. When built
ines made at - By whom made - When made -
lers made at Barberton, Ohio By whom made Babcock & Wilcox Co. When made 1949
ninal Horse Power - Owners - Port belonging to -

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth Steel Co.
e of Approval of plan Dec. 28, 1948 Feb. 2, 1949 Number and Description or Type
Boilers 2 Marine (2) Drum Type Working Pressure 685 psi Tested by Hydraulic Pressure to 1028 psi Date of Test 930 ft each Superheat
of Certificate Can each boiler be worked separately - Total Heating Surface of Boilers 2040 sq. ft Economizer
orced draught fitted Area of fire grate (coal) in each Boiler 7390 " " " Boiler
and type of burners (oil) in each boiler Four (4) Straight Mechanical No. and description of safety valves on
boiler - Area of each set of valves per boiler {per rule as fitted - Pressure to which they

adjusted - Are they fitted with easing gear - In case of donkey boilers state whether steam from main boilers can enter
donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork - Height of boiler 22'-6"
lth and Length 17'-2" Steam Drums:—Number in each boiler One Inside diameter 46 27/32"
ckness of plates Wrapper 1 3/16" Tube 3 3/4" Range of Tensile Strength 70,000 Minimum Are drum shell plates welded
langed Welded If fusion welded, state name of welding firm Babcock & Wilcox Co. Have all the requirements of the rules
Class I vessels been complied with Yes Description of riveting:—Cir. seams No Riveting long. seams -
meter 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"-2"-3 1/4" Pitch of tube holes 1.75"
entage strength of shell in way of tubes 2714% Steam Drum Heads or Ends:—Range of tensile strength 70,000 Min.
ckness of plates 1 13/16" Radius or bow stayed Radius 6" Size of manhole or handhole 12" x 16" Water Drums:—Number
ach boiler One Inside Diameter 29 5/8" Thickness of plates Wrap 3/4" Tube 2 1/2" Range of tensile strength 70,000 Min. Are drum shell plates
led or flanged Welded If fusion welded, state name of welding firm Babcock & Wilcox Co. Have all the requirements of the rules
Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seam -
meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -
entage 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"
entage strength of drum shell in way of tubes .2714% Water Drum Heads or Ends:—Range of Tensile strength 70,000 Min.
ckness of plates Manhead 1 3/16" Blankhead 1.00" 2 Rear O.H. Seamless 1 Side Material Carbon Steel thickness .875" Size of manhole or handhole 12" x 16"
ders or Sections:—Number Generating 1.25" 11BWG 1422 Tested by Hydraulic Pressure to 1370 psi
es:—Diameter Waterwall 2" Thickness 8 BWG Number 71 Steam Dome or Collector:—Description of
to Shell - Inside diameter - Thickness of shell plates - Range of tensile
gth - 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 -
of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -
vn or End Plates:—Range of tensile strength - Thickness - Radius or bow stayed -

PERHEATER. Drums or Headers:—Number in each boiler 3 Inside Diameter 5 1/4" square
ckness 1.00" Material Carbon Steel Range of tensile strength 70,000 Min. Are drum shell plates welded
mged Seamless If fusion welded, state name of welding firm - Have all the requirements of the rules
lass I vessels been complied with Yes Description of riveting:—Cir. seams - long. seams -
eter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of
shell in way of tubes .310% Drum Heads or Ends:—Thickness - Range of tensile strength -
is 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"
d by Hydraulic Pressure to - Date of Test - Is a safety valve fitted to each section of the superheater which
e shut off from the boiler - No. and description of Safety Valves - Area of each set
lves - Pressure to which they are adjusted - Is easing gear fitted -

re Gear. Has the spare gear required by the rules been supplied -
MB 4343 Boilers 1 and 2 The foregoing is a correct description,
Manufacturer.

es } During progress of } May 2, Aug. 1, 2, 4, 9, 16, 1949 Is the approved plan of boiler forwarded herewith No
rvey } work in shops - }
le } During erection on }
ing } board vessel - - - } Total No. of visits 6

boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Sun Hulls 570-576

ERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Boiler Components consisting of Drums,
erheater, Waterwall and Economizer headers were built in accordance with approved plans and
er Special Survey during construction by Surveyors to this Society. The workmanship is satisfactory
oughout and it is recommended that the Boilers become part of the machinery of a classed vessel with
rvey Fee £ : : When applied for, 19 the notation in the Register Book of 2 WTB-685 psi
avelling Expenses (if any) \$ 65 :00 : When received, 19 Acting Surveyor to Lloyd's Register
anged fee to be charged by Philadelphia Surveyors. Engineer Surveyor to Lloyd's Register of Shipping.

mittee's Minute NEW YORK MAR 22 1950 J.F.J.
rned See First Enquiry left. attached.
Lloyd's Register Foundation
011259-011266-0057