

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 Tons -
 at **Chester, Pennsylvania** By whom built **Sun Shipbldg. & Dry Dock Co.** When built
 ives 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**

Boilers **2 Marine (2) Drum Type** Working Pressure **685 psi** Tested by Hydraulic Pressure to **1028 psi** Date of Test **930**

of Certificate **Can each boiler be worked separately -** Total Heating Surface of Boilers **2040 sq. ft** each Superheat 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"**

th and Length **17'-2"** Steam Drums:—Number in each boiler **One** Inside diameter **46 27/32"**

ickness of plates **Wrapper 1 3/16" Tube 3 3/4"** Range of Tensile Strength **70,000 Minimum** Are drum shell plates welded

anged **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"**

centage strength of shell in way of tubes **.2714%** Steam Drum Heads or Ends:—Range of tensile strength **70,000 Min.**

ickness of plates **1 13/16"** Radius or how 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 -

centage 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"**

centage strength of drum shell in way of tubes **.2714%** Water Drum Heads or Ends:—Range of Tensile strength **70,000 Min.**

ickness 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"**

ers or Sections:—Diameter **Generating 1.25" Waterwall 2"** Thickness **8 BWG** Number **1422** Tested by Hydraulic Pressure to **1370 psi**

to Shell **Inside diameter -** Thickness of shell plates - Steam Dome or Collector:—Description of

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 how stayed -

PERHEATER. Drums or Headers:—Number in each boiler **3** Inside Diameter **5 1/4" square**

ness **1.00"** Material **Carbon Steel** Range of tensile strength **70,000 Min.** Are drum shell plates welded

nged **Seamless** If fusion welded, state name of welding firm - Have all the requirements of the rules

Class 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"**

led 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**

vey } 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

vey 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.*

ned **See First Enquiry left attached.**

