

REPORT ON WATER TUBE BOILERS.

No. 1393

6 MAY 1950

Received at London Office

Port of Cleveland, Ohio

Writing Report 19 When handed in at Local Office 19
 in Survey held at Barberton, Ohio Date, First Survey July 13, 1949 Last Survey October 21, 1949
 Bk. on the Tanker - Hull 576 (Number of Visits 8) Tons { Gross --
 Net --
 at Chester, Pennsylvania By whom built Sun Shipbuilding & Drydock Co. When built 1949
 es made at -- By whom made -- When made --
 s made at Barberton, Ohio By whom made Babcock & Wilcox Co. When made 1949
 al Horse Power -- Owners -- Port belonging to --

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Worth Steel Company

of Approval of plan 12-28-48 and 2-1-49 Number and Description or Type 1028
 boilers 2 B & W Marine 2 Drum Single Uptake Working Pressure 685# Tested by Hydraulic Pressure to 1370 Date of Test 22-9-49
 of Certificate -- Can each boiler be worked separately Yes Total Heating Surface of Boilers 2040 sq. ft. each superhtr. economizer boiler
 red draught fitted -- Area of fire grate (coal) in each Boiler -- No. and description of safety valves on
 and type of burners (oil) in each boiler Iowa Straight Mechanical (4 per boiler) Pressure to which they
 boiler -- Area of each set of valves per boiler { per rule -- as fitted --
 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"
 and Length 17'-2" Steam Drums:—Number in each boiler One Inside diameter 46-27/32"
 ness of plates Wrapper 1-3/16" Range of Tensile Strength 70,000 p.s.i. min. Are drum shell plates welded
 dged 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"
 percentage strength of shell in way of tubes .2714% Steam Drum Heads or Ends:—Range of tensile strength 70,000 p.s.i. min.
 ckness of plates 1-13/16" Radius or how stayed 16" Radius Size of manhole or handhole 12" x 16" Water Drums:—Number
 each boiler One Inside Diameter 29-5/8" Thickness of plates Tube 2-1/2" Range of tensile strength 70,000 min. Are drum shell plates
 ded 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 -- 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"
 percentage 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" Blank 1" Radius 3-3/4" Size of manhole or handhole 12 x 16
 aders 2 Bear 1 Side Material Carbon Steel Thickness .875" Number 1422 Tested by Hydraulic Pressure to 1370"
 es:—Diameter Waterwall 2" Thickness 8" Number 71 Steam Dome or Collector:—Description of
 nt to Shell None Inside diameter -- Thickness of shell plates -- Range of tensile
 length -- Description of longitudinal joint -- If fusion welded, state name of welding
 n -- Have all the requirements of the rules for Class I vessels been complied with Yes Diameter of rivet holes --
 ch of rivets -- Thickness of straps -- Percentage strength of long. joint -- Plate -- Rivet --
 own or End Plates:—Range of tensile strength -- Thickness -- Radius or how stayed --
 UPPERHEATER. Drums or Headers:—Number in each boiler 3 Inside Diameter 5-1/4" square
 ckness 1" Material Carbon Steel Range of tensile strength 70,000 min. Are drum shell plates welded
 dged Seamless If fusion welded, state name of welding firm -- long. seams --
 r Class I vessels been complied with Yes Description of riveting:—Cir. seams -- long. seams --
 diameter of rivet holes in long. seams -- Pitch of rivets -- Thickness of straps -- Percentage strength of
 ng. joint:—Plate -- Rivet -- Diameter of tube holes in drum -- Pitch of tube holes -- Percentage strength of
 um shell in way of tubes .310% Drum Heads or Ends:—Thickness -- Range of tensile strength 70,000 min.
 radius 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"
 ested by Hydraulic Pressure to 1370 Date of Test 29-9-49 Is a safety valve fitted to each section of the superheater which
 n be shut off from the boiler -- No. and description of Safety Valves -- Area of each set
 f valves -- Pressure to which they are adjusted -- Is easing gear fitted --
 Spare Gear. Has the spare gear required by the rules been supplied --

The foregoing is a correct description,

Boilers MB-4344 No. 1 & 2

Manufacturer.

Dates of Survey while building } During progress of } July 13, Sept. 2, 8, 16, 22, Oct. 4, 7, 21, 1949
 } work in shops - - }
 } During erection on }
 } board vessel - - }
 Is the approved plan of boiler forwarded herewith No
 Total No. of visits 8

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. 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. Workmanship is satisfactory throughout and it is recommended that these Boilers become part of the machinery of a classed vessel with notation in the Register of 2 WT B

Survey Fee £ : : When applied for, 19 685# Spt.

Travelling Expenses (if any) £ : : When received, 19

Arranged fee to be charged by Philadelphia Surveyors / Exp. NEW YORK APR 19 1950

Committee's Minute

Assigned In First Entry Rpt. attached

Acting Engineer Surveyor to Lloyd's Register of Shipping.

R.S. Haggensen
 Surveyor to Lloyd's Register

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