

REPORT ON WATER TUBE BOILERS.

Received at London Office 29 NOV 1948



Date of writing Report 6th Oct., 19 48 When handed in at Local Office 6th Oct., 19 48 Port of Galveston, Texas
 No. in Survey held at Galveston, Texas Date, First Survey 26th Aug. Last Survey 11th Sept., 19 48
 Reg. Bk. 7327 on the S/S "THEODOXUS" (Number of Visits 4) Gross 10672 Tons Net 6315
 Built at Portland, Or. By whom built Kaiser Co., Inc. When built 1945
 Engines made at Lynn, Mass. By whom made General Electric Co. When made 1945
 Boilers made at Chattanooga, Tenn. By whom made Hedges Walsh & Weidner Division When made 1945
 Nominal Horse Power 1425 Owners Anglo-Saxon Petroleum Co., Ltd. Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel S. P. & Worth Steel Co.

Date of Approval of plan A.B.S. & U.S.C.G. Number and Description or Type 1-26-48
 of Boilers Two single pass straight tube Working Pressure 500 lbs. Tested by Hydraulic Pressure to 750 lbs. Date of Test 8-26-48
 No. of Certificate USCG (P) 10786 Can each boiler be worked separately Yes Total Heating Surface of Boilers 743,113.54 Supht. 4934.5677 each
 forced draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired
 No. and type of burners (oil) in each boiler Four Todds "Hexpress" Type No. and description of safety valves on
 each boiler One 2 1/2" Dia. Duplex Consolidated Main { per rule 9.8) Pressure to which they
One 1 1/2" Dia. Simplex Consolidated Supht. { as fitted 1.76) 11.56" sq. ins.
 Main 500 lbs.
 Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 the donkey boiler - Smallest distance between boilers or uptakes and bunkers 23'-9" Height of boiler 21'-0"
 Width and Length 11'-10" & 17'-5 1/2" Steam Drums:—Number in each boiler One Inside diameter 42"
 Thickness of plates 1 19/32" & 3/4" Range of Tensile Strength 70000 lbs. min. Are drum shell plates welded
Fusion welded If fusion welded, state name of welding firm Combustion Engineering Co. Have all the requirements of the rules
 for Class I vessels been complied with A.B.S. & U.S.C.G. Description of riveting:—Cir. seams - long. seams -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 long. joint:—Plate - Rivet - Diameter of tube holes in drum 4 1/32" Pitch of tube holes 7"
 Percentage strength of shell in way of tubes - Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs. min.
 Thickness of plates 1 1/4" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number
 each boiler - Inside Diameter - Thickness of plates - Range of tensile strength - Are drum shell plates
 welded or flanged - If fusion welded, state name of welding firm - Have all the requirements of the rules
 for Class I vessels been complied with - Description of riveting:—Cir. seams - long. seam -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -
 Percentage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes -
 Percentage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength -
 Thickness of plates - Radius or how stayed - Size of manhole or handhole -
 Headers or Sections:—Number 14 Material Seamless Steel Thickness 9/16" Tested by Hydraulic Pressure to 750 lbs.
 Tubes:—Diameter 1 1/4", 2" & 4" Thickness 13, 10 & 5 or 6 Number 1148, 56 & 46 Steam Dome or Collector:—Description of
 joint to Shell - Inside diameter - Thickness of shell plates - Range of tensile
 strength - Description of longitudinal joint - If fusion welded, state name of welding
 firm - Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -
 Pitch of rivets - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -
 Crown or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -
 SUPERHEATER. Drums or Headers:—Number in each boiler Two Inside Diameter 6 1/2" x 6 1/2" square
 Thickness 3/4" Material Seamless Steel Range of tensile strength 55000 lbs. min. Are drum shell plates welded
 flanged - If fusion welded, state name of welding firm - Have all the requirements of the rules
 for Class I vessels been complied with - Description of riveting:—Cir. seams - long. seams -
 Diameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of
 long. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of
 drum shell in way of tubes - Drum Heads or Ends:—Thickness - Range of tensile strength -
 Radius or how stayed - Size of manhole or handhole 3 3/8" x 4 1/4" Number, diameter, and thickness of tubes 145, 1 1/4" & .120"
 Tested by Hydraulic Pressure to 750 lbs. Date of Test 8/26/48 Is a safety valve fitted to each section of the superheater which
 can be shut off from the boiler Yes No. and description of Safety Valves One 1 1/2" Dia. Simplex Consolidated Area of each set
 valves 1.76 sq. ins. Pressure to which they are adjusted 464 lbs. Is easing gear fitted Yes
 Spare Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

Dates } During progress of }
 Survey } work in shops - - }
 while } During erection on }
 building } board vessel - - - }

Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits -

Is this boiler a duplicate of a previous case Yes If so, state vessel's name and report No. T2 Tanker Class

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two watertube boilers were constructed under the supervision of the American Bureau of Shipping and U.S.C.G. have now been hydrostatically tested and examined throughout and under steam. The Boilers of this vessel are in good condition and eligible, in my opinion, to be classed with this Society with a record of B.S. 9,48, 2 W.T.B.

Survey Fee £ : - : } When applied for, 19
 Travelling Expenses (if any) £ : - : } When received, 19

Committee's Minute

Signed 2 WTB (SPT) 500 lbs.

NEW YORK NOV 3 1948

James L. ...

Engineer Surveyor to Lloyd's Register of Shipping.



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PORT BOILER

USCG 10786
TS 70,000 lbs.
Hydro test 750 lbs.
Original W.P. 500 lbs.
Built by C. E. Co.
Steel, Bethlehem &
Worth Steel
Inspector C.G.
C.E.Co. No. 12063
WP 500 lbs.
TP 1000 lbs. 1-26-45

STBD. BOILER

USCG 10785
TS 70,000 lbs.
Hydro Test 750 lbs.
Original W.P. 500 lbs.
Built by C. E. Co.
Steel, Bethlehem &
Worth Steel
Inspector C.G.
C.E.Co. No. 12061
WP 500 lbs.
TP 1000 lbs. 1-26-45



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