

# REPORT ON WATER TUBE BOILERS.

Received at London Office.

6 NOV 1948

Date of writing Report 19th Sept 1948 When handed in at Local Office 19th Sept 1948 Port of Galveston, Texas  
 No. in Survey held at Galveston, Texas Date, First Survey 31st August, '48 Last Survey 17th Sept., 1948  
 Reg. Bk. 78058 on the S/S "TROCHURUS" ex "COUNCIL CREST" (Number of Visits 4) { Gross 10668  
 Tons { Net 6318  
 Built at Portland, Oregon By whom built Kaiser Co., Inc. When built 1945 - 6  
 Engines made at Lynn, Mass By whom made General Electric Co. When made 1945 - 6  
 Boilers made at Chattanooga, Tenn. By whom made Combustion Engineering Co. Hedges Walsh & Weidner Division When made 1945 - 6  
 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 of Type Two single pass straight tube Working Pressure 500 lbs. Tested by Hydraulic Pressure to 1000 lbs. Date of Test 3-10-48  
 of Boilers USCG (P) 10793 (S) 10794 No. of Certificate AB N1011 (S) 1012 Can each boiler be worked separately Yes Total Heating Surface of Boilers Supht. 74311354 each  
 Is 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  
One 1 1/2" Dia. Simplex Consolidated Supht. Area of each set of valves per boiler { per rule 9.8 } Pressure to which they are adjusted Supht. 464 lbs. { as fitted 1.76 } 11.56" sq. ins. 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 or flanged 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 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. 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 3/10/48 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 of 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 work in shops - - }  
 Survey while building } During erection on 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 and Machinery of this vessel are in good condition and eligible, in my opinion, to be classed with this Society with a record of 2 W.T.B. 500 lbs. (Spt.)

When applied for 19

When received 19

Committee's Minute

NEW YORK OCT 20 1948

*James Ludlay + Bloomfield*  
 Engineer Surveyor to Lloyd's Register of Shipping.

signed 2 W.T.B. (SPT) 500 lbs.

PORT BOILER

USCG 10793  
TS 70,000 lbs.  
Hydro Test 750 lbs.  
Original W.P. 500 lbs.  
Built by C.E. Co.  
Steel, Bethlehem &  
Worth Steel  
Inspector H.H.B.  
H372B 2-12-45  
C.E.Co. No. 12077  
WP 500 lbs.  
TP 1000 lbs. 2-12-45

STBD. BOILER

USCG 10794  
TS 70,000 lbs.  
Hydro Test 750 lbs.  
Original W.P. 500 lbs.  
Built by C. E. Co.  
Steel, Bethlehem &  
Worth Steel  
Inspector H.H.B.  
H372B 2-12-45  
C.E.Co. No. 12079  
WP 500 lbs.  
TP 1000 lbs. 2-3-45



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