

REPORT ON WATER TUBE BOILERS.

No. 24064.

Received at London Office

Report 17-10-1947. When handed in at Local Office 21-10-1947. Port of SWANSEA.
 Survey held at Swansea. Date, First Survey 12-9-47. Last Survey 16-10-1947.
 on the s.s. Oil Tanker "THEOBALDIUS" ex "Silver Creek". (Number of Visits 5.) Tons { Gross 10662.
 Net 6323.
 at Portland, Or. By whom built Kaiser Co. Inc. When built 1945.
 es made at Lynn, Mass. By whom made General Electric Co. When made 1945.
 rs made at Chattanooga, Tenn. By whom made Combustion Eng. Co. Inc. When made 1945.
 minial Horse Power. Owners Anglo Saxon Petroleum Co. Port belonging to London.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Date of Approval of plan. Number and Description or Type
 of Boilers 2 x W.T. Cross Drum Type. Working Pressure 500. Tested by Hydraulic Pressure to 750 lbs. Date of Test 2-10-47.
 No. of Certificate. Can each boiler be worked separately. Yes. Total Heating Surface of Boilers 2 x 4934 sq. ft. + 2 x 743 sq. ft. = 11354 sq. ft.
 Is forced draught fitted. Yes. Area of fire grate (coal) in each Boiler Furnace Vol. 618 c. ft. each. No. and description of safety valves on
 No. and type of burners (oil) in each boiler 4 - Todd Hexagon. each boiler 2 x 2 1/2" High Lift. ? L.H.L. Area of each set of valves per boiler { per rule
 as fitted Pressure to which they
 are adjusted 480 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 or woodwork. - Height of boiler 21' 0"
 Width and Length 11' 10" x 17' 5 1/2" Steam Drums:—Number in each boiler 1 Inside diameter 3' 5" Rad. = 21" + 20"
 Thickness of plates 3/4" shell + 1 1/2" tube plate. Range of Tensile Strength. Are drum shell plates welded
 changed welded. If fusion welded, state name of welding firm. Have all the requirements of the rules
 Class I vessels been complied with. Description of riveting:—Cir. seams long. seams
 of rivet holes in long. seams. - Pitch of rivets. - Thickness of straps. - Percentage strength of
 -Plate. - Rivet. - Diameter of tube holes in drum. - Pitch of tube holes. -
 strength of shell in way of tubes. - Steam Drum Heads or Ends:—Range of tensile strength. -
 of plates 1 1/2" to 3/4" Radius or how stayed. - Size of manhole or handhole 12" x 16" Water Drums:—Number
 at weld. Inside Diameter. - Thickness of plates. - Range of tensile strength. - Are drum shell plates
 aged. - If fusion welded, state name of welding firm. - Have all the requirements of the rules
 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 5 BWG Thickness 19/32" Tested by Hydraulic Pressure to 750 lbs.
 Tubes:—Diameter Header 4" o.d. Thickness 13 BWG Number 1148 Steam Dome or Collector:—Description of
 Joint to Shell Header 2" o.d. 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. Drum or Headers:—Number in each boiler 2 Inside Diameter 6" x 6" ? 5 1/2" x 6"
 Thickness 13/16" Material. - 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. 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. - Number, diameter, and thickness of tubes. -
 Tested by Hydraulic Pressure to 750 lbs. Date of Test 2-10-47. 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 1 x 1 1/2" Dia. High Lift. (? I.H.L.) Area of each set
 of valves. Pressure to which they are adjusted 460 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 - - - Is the approved plan of boiler forwarded herewith -
 of Survey { During erection on board vessel - - - Total No. of visits -
 while building {

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers were built under the survey
 of the American Bureau of Shipping and classed with that Society. The scantlings have been
 verified with the plans and so far as can be seen the materials and workmanship are good. In my
 opinion the boilers are eligible to be classed with record of B.S. 10,47

Survey Fee ... £ : : When applied for, 19
 Travelling Expenses (if any) £ See Report & herewith. When received, 19

Committee's Minute
 Assigned

See minute on Rpt 9.

Engineer Surveyor to Lloyd's Register of Shipping.

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