

REPORT ON WATER TUBE BOILERS.

No. 24064.

Received at London Office

27 OCT 1947

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.

Boilers made at Lynn, Mass. By whom made General Electric Co. When made 1945.

Boilers made at Chattanooga, Tenn. By whom made Combustion Eng. Co. Inc. When made 1945.

Minimum 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

Boilers 2 x W.T. Cross Drum Type. Working Pressure 500 Tested by Hydraulic Pressure to 750 lbs. Date of Test 2-10-47. 26-9-47.

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. Total = 11354

Is forced draught fitted Yes. Area of fire grate (coal) in each boiler Furnace Vol. 618 c. ft. each.

No. and type of burners (oil) in each boiler 4 - Todd Hexagon. No. and description of safety valves on

each boiler 2 x 2 1/2" High Lift. ? L.H.L. Area of each set of valves per boiler } per rule 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

Drums 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

Diameter 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 -

Thickness 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

Drums 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. 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 Thickness 19/32" Tested by Hydraulic Pressure to 750 lbs.

Tubes:—Diameter Header 4 1/2" o.d. Thickness 5 BWG: Number 1148 Steam Dome or Collector:—Description of

Joint to Shell Header 2 1/2" o.d. Inside diameter 10 BWG: 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 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. 26-9-47. 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. (? L.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 of Survey while building } During progress of work in shops - - } Is the approved plan of boiler forwarded herewith - } During erection on board vessel - - - } Total No. of visits -

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

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned

See minute on Rpt 9.

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