

REPORT ON WATER TUBE BOILERS,

No. 24092.

Received at London Office 113 JAN 1948

Date of writing Report 31-12-1947 When handed in at Local Office 12-1-1948 Port of SWANSEA

No. in Survey held at SWANSEA Date, First Survey 4-11-47 Last Survey 19-12-1947
 Reg. Bk. 25809 on the TANKER OILFIELD EX HOVENWEEF (Number of Visits 2) Tons Gross 10662 Net 6323
 Built at PORTLAND OR: By whom built KAISER CO INC: When built 1944
 Engines made at LYNN MASS: By whom made GENERAL ELECTRIC CO: When made 1944
 Boilers made at ST LOUIS MO: By whom made COMBUSTION ENG: CO INC: When made 1944
 Nominal Horse Power Owners NORTHERN PETROLEUM TANK S.S. CO Port belonging to NEWCASTLE

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel (BETHLEHEM STEEL CO) (WORTH STEEL CO)

Date of Approval of plan STANDARD FOR T2 TANKERS Number and Description or Type of Boilers 2 - CROSS DRUM TYPE Working Pressure 500 LBS Tested by Hydraulic Pressure to 750 LBS Date of Test 8.44.

No. of Certificate 1 Can each boiler be worked separately YES Total Heating Surface of Boilers 11354 sq ft

Is forced draught fitted YES Area of fire grate (coal) in each boiler FURNACE VOL 618 cft

No. and type of burners (oil) in each boiler 4 - TODD "HEXPRESS" No. and description of safety valves on each boiler 2 - HIGH LIFT

Area of each set of valves per boiler as fitted 9.81 sq in Pressure to which they are adjusted 490 LBS

Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter the donkey boiler YES

Smallest distance between boilers or uptakes and bunkers or woodwork YES Height of boiler 21'-0"

Width and Length 17'-5 1/2" x 11'-10" Steam Drums:—Number in each boiler 1. Inside diameter 21" x 20 3/4" TUBE PLATE

Thickness of plates 3/4" & 1 19/32" TUBE PLATE Range of Tensile Strength 70,000 LBS MIN: Are drum shell plates welded or flanged WELDED

If fusion welded, state name of welding firm COMBUSTION ENG: CO INC Have all the requirements of the rules for Class I vessels been complied with AMERICAN BUREAU RULE

Description of riveting:—Cir. seams YES long. seams YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps YES Percentage strength of long. joint:—Plate YES Rivet YES

Diameter of tube holes in drum 4" Pitch of tube holes 7"

Percentage strength of shell in way of tubes 42.8 Steam Drum Heads or Ends:—Range of tensile strength 65000 LBS MIN:

Thickness of plates 1 1/4" Radius or how stayed SEMI-ELLIPTICAL Size of manhole or handhole 12" x 16"

Water Drums:—Number 28 Are drum shell plates welded or flanged YES

If fusion welded, state name of welding firm YES Have all the requirements of the rules for Class I vessels been complied with YES

Description of riveting:—Cir. seams YES long. seam YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps YES

Percentage strength of long. joint:—Plate YES Rivet YES Diameter of tube holes in drum YES Pitch of tube holes YES

Percentage strength of drum shell in way of tubes YES Water Drum Heads or Ends:—Range of Tensile strength YES

Thickness of plates YES Radius or how stayed YES Size of manhole or handhole YES

Material FORGED STEEL Thickness 0.56 3/8 x 6 3/8 x 9 1/8 TUBS Tested by Hydraulic Pressure to 750 LBS

Number 1148 Steam Dome or Collector:—Description of Diameter 1 1/4" x 2" x 1 1/2"

Thickness of shell plates 5/8" Range of tensile strength YES

Description of longitudinal joint YES If fusion welded, state name of welding firm YES

Have all the requirements of the rules for Class I vessels been complied with YES Diameter of rivet holes YES

Pitch of rivets YES Percentage strength of long. joint YES Plate YES Rivet YES

Down or End Plates:—Range of tensile strength YES Thickness YES Radius or how stayed YES

SUPERHEATER. Headers or Headers:—Number in each boiler 2. Inside Diameter 5 3/4" x 5 3/4"

Thickness 3/4" & AT TUBE ENDS Material FORGED STEEL Range of tensile strength 60,000 LBS. MIN: Are drum shell plates welded or flanged YES

If fusion welded, state name of welding firm YES Have all the requirements of the rules for Class I vessels been complied with AMERICAN BUREAU

Description of riveting:—Cir. seams YES long. seams YES

Diameter of rivet holes in long. seams YES Pitch of rivets YES Thickness of straps YES Percentage strength of long. joint:—Plate YES Rivet YES

Diameter of tube holes in drum 1 1/4" Pitch of tube holes YES Percentage strength of drum shell in way of tubes YES

Drum Heads or Ends:—Thickness YES Range of tensile strength YES

Radius or how stayed YES Size of manhole or handhole YES Number, diameter, and thickness of tubes 145 UTUBES 1 1/4" x 1 1/8"

Tested by Hydraulic Pressure to 750 LBS Date of Test 8.44. 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 - HIGH LIFT Area of each set of valves 1.775

Pressure to which they are adjusted 470 LBS Is easing gear fitted YES

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 } During erection on board vessel - - - }
 building }

Is the approved plan of boiler forwarded herewith No

Total No. of visits 2.

Is this boiler a duplicate of a previous case YES If so, state vessel's name and report No. T2-SE-A1 TURBO ELECTRIC TANKERS

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) THE BOILERS WERE BUILT UNDER SURVEY BY 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 BOILERS ELIGIBLE TO BE CLASSED WITH RECORD OF B.S. 1247.

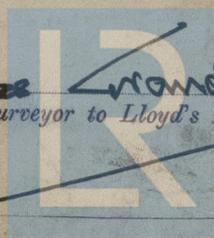
Survey Fee ... £ SEE RPT 9. } When applied for, - 10
 Travelling Expenses (if any) £ } When received, - 10

Committee's Minute assigned

FRI. 12 MAR 1948

See minute on page 9

Engineer Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation