

# 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) (WORM 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 { per rule as fitted 9.81 D" 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 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 1/2" 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 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" 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-CLIPSON

Size of manhole or handhole 12" x 16" Water Drums:—Number 28 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 Radius or how stayed Size of manhole or handhole

Thickness of plates 28 Material FORGED STEEL Thickness 5 3/8" x 6 3/8" x 9 1/8" Tested by Hydraulic Pressure to 750 LBS

No. of Sections:—Number 6 Diameter 4" ID Thickness 5 BWC 13 BWC 10 BWC Number 1148 Steam Dome or Collector:—Description of

Thickness 1 1/4" ID 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 Plate Rivet

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 145 UTubes 1 1/4" x 6 1/8" BWC 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 1.770 Pressure to which they are adjusted 470 LBS Is easing gear fitted YES

r. 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 No

while { During erection on board vessel -- } Total No. of visits 2.

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 THE AMERICAN BUREAU OF SHIPPING AND CLASSED WITH THAT SOCIETY. THE SCANTLINGS HAVE BEEN CONFIRMED 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. 12.47.

Survey Fee ... £ SEE RPT 9: When applied for 10

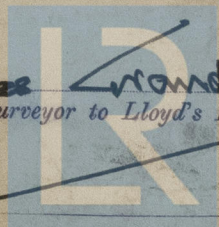
Travelling Expenses (if any) £ When received 10

Committee's Minute assigned

FRI. 12 MAR 1948

See minute on page 9

Engineer Surveyor to Lloyd's Register of Shipping.



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