

REPORT ON WATER TUBE BOILERS.

No. 24195.

Received at London Office 21 SEP 1948

Writing Report 16-9-1948 When handed in at Local Office 18-9-1948. Port of SWANSEA

Survey held at SWANSEA Date, First Survey 12-7-48 Last Survey 31-8-1948

Bk. 51 on the S.S. THALAMUS (Number of Visits 6) Tons { Gross 10673 Net 6318

at PORTLAND OR: By whom built KAISER C° INC. When built 1945

made at LYNN MASS: By whom made GENERAL ELECTRIC C° When made 1945

made at CHATTANOUGA, TENN: By whom made COMBUSTION ENGINEERING C° When made 1945

Indicated Horse Power 1486 Owners ANGLO SAXON PETROLEUM C° Port belonging to LONDON.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel BETHLEHEM & WORTH STEEL C°

of Approval of plan STANDARD FOR T2 TANKERS Number and Description or Type

Boilers 2 CROSS DRUM BARKER & WILCOX TYPE Working Pressure 500 LBS Tested by Hydraulic Pressure to 750 LBS Date of Test 3.45

of Certificate Can each boiler be worked separately YES Total Heating Surface of Boilers 11354 sq ft

forced draught fitted YES Area of fire grate (coal) in each Boiler 4-FURNACE VOLS 618 CFT EACH

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

boiler 2 - HIGH LIFT Area of each set of valves per boiler { per rule as fitted 9.81 sq ft Pressure to which they

adjusted 500 LBS D Are they fitted with easing gear YES In case of donkey boilers state whether steam from main boilers can enter

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

th and Length 17'-5 1/2 x 11'-10 Steam Drums:—Number in each boiler 1 Inside RADIUS diameter 21 1/2 x 20 5/8 AT TUBE PLATE

thickness of plates 3/4 2 1/32 TUBE PLATE Range of Tensile Strength 70,000 LBS MIN Are drum shell plates welded

changed WELDED If fusion welded, state name of welding firm COMBUSTION ENG C° Have all the requirements of the rules

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

joint:—Plate Rivet Diameter of tube holes in drum 4 Pitch of tube holes 7

percentage strength of shell in way of tubes 42.86% Steam Drum Heads or Ends:—Range of tensile strength 65000 LBS MIN

thickness of plates 1/4 Radius or how stayed SEMI-ELLIPTICAL 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

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

Boilers or Sections:—Number 28 Material FORGED STEEL Thickness 6 5/8 x 6 3/4 x 7/8 Tested by Hydraulic Pressure to 750 LBS

to Shell Diameter 1/4 Thickness 13 8/16 Number 1148 Steam Dome or Collector:—Description of

to Shell 2 Inside diameter Thickness of shell plates Range of tensile

strength Description of longitudinal joint If fusion welded, state name of welding

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

of rivets Thickness of straps Percentage strength of long. Joint Plate Rivet

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

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

thickness 3/4 2 1/32 TUBE HOUS Material FORGED STEEL Range of tensile strength 60,000 MIN Are drum shell plates welded

changed 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

joint:—Plate Rivet Diameter of tube holes in drum 1/4 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 1/4 TUBES 1/4 11 8/16

tested by Hydraulic Pressure to 750 LBS Date of Test 3.45 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 1.77 sq ft Pressure to which they are adjusted 470 LBS D 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

while } 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 - SE - AI TURBO ELECTRIC TANKER.

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 VERIFIED

AGAINST TYPICAL PLANS OF T2 TANKERS AND SO FAR AS CAN BE SEEN THE MATERIAL AND WORKMANSHIP

IS SATISFACTORY AND BOILERS ELIGIBLE FOR CLASSIFICATION FOR RECOMMENDATIONS AS TO CLASS SEE RPT 9.

Survey Fee ... £ ... When applied for, 10

Travelling Expenses (if any) £ SEE RPT 9 : } When received, 10

Committee's Minute See minute on form 9.

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

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