

REPORT ON WATER TUBE BOILERS.

Received at London Office 12 JAN 1949

Date of writing Report 5th Oct., 1948 When handed in at Local Office 5th Oct., 1948 Port of Galveston, Texas
 No. in Survey held at Galveston, Texas Date, First Survey 14th August Last Survey 4th Sept., 1948
 Reg. Bk. 9561 on the S/S "FRANCINE CLORE" (Number of Visits 3) Gross 10634 Tons Net 6299
 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 Engineering Co. Hedges Walsh & Weidner Division When made 1944
 Nominal Horse Power 1425 Owners British Oil Shipping Co., Ltd. Port belonging to London

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel S. P. & Worth Steel Co.

Date of Approval of plan A.B.S. & U.S.C.G.
 of Boilers Two single pass straight tube Working Pressure 500 lbs. Tested by Hydraulic Pressure to 1000 lbs. Number and Description or Type 1-28-48
 No. of Certificate (S) SL328 Can each boiler be worked separately Yes ✓ Boiler & W.W. 4934 5677 each total
 Is forced draught fitted Yes Area of fire grate (coal) in each Boiler Oil fired ✓ Total Heating Surface of Boilers Supht. 111354
 No. and type of burners (oil) in each boiler Four Todds "Hexpress" Type No. and description of safety valves on
 each boiler One 2 1/2" Dia. Duplex Consolidated Main Area of each set of valves per boiler {per rule - }
 One 1 1/2" Dia. Simplex Consolidated Supht. Main 500 lbs. {as fitted 9.8 } 11.56" sq. ins. Pressure to which they
 are adjusted Supht. 464 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 23'-9" Height of boiler 21'-0"
 Width and Length 11'-10" & 17'-5 1/2" Steam Drums:—Number in each boiler One ✓ Inside diameter 42" ✓
 Thickness of plates 1 19/32" & 3/4" Range of Tensile Strength 70000 lbs. min. Are drum shell plates welded
 or flanged Fusion welded If fusion welded, state name of welding firm Combustion Engineering Co. Have all the requirements of the rules
 for Class I vessels been complied with A.B.S. & U.S.C.G. 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 1/32" ✓ Pitch of tube holes 7" ✓
 Percentage strength of shell in way of tubes - Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs. min.
 Thickness of plates 1 1/4" ✓ Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" ✓ Water Drums:—Number
 in 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
 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 -
 Thickness of plates - Radius or how stayed - Size of manhole or handhole -
 Leaders or Sections:—Number 14 ✓ Material ✓ Thickness 9/16" ✓ Tested by Hydraulic Pressure to 750 lbs.
 Tubes:—Diameter 1 1/4", 2" & 4" Thickness 13, 10 & 5 or 6 Number 1148, 56 & 46 Steam Dome or Collector:—Description of
 joint to Shell - 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. Drums or Headers:—Number in each boiler Two ✓ Inside Diameter 6 1/2" x 6 1/2" square
 Thickness 3/4" ✓ Material Seamless Steel ✓ Range of tensile strength 55000 lbs. min. 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 3 3/8" x 4 1/4" Number, diameter, and thickness of tubes 145, 1 1/4" & .120"
 Tested by Hydraulic Pressure to 750 lbs. Date of Test 8/17/48 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 One 1 1/2" Dia. Simplex Consolidated Area of each set
 valves 1.76 sq. ins. ✓ Pressure to which they are adjusted 464 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 }
 of Survey } work in shops - - }
 while } During erection on }
 building } board vessel - - - }
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits -

This boiler a duplicate of a previous case Yes If so, state vessel's name and report No. T2 Tanker Class

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The two watertube boilers were constructed
 under the supervision of the American Bureau of Shipping and U.S.C.G. have now been hydrostatically
 tested and examined throughout and under steam. The Boilers of this vessel are in good condition
 and eligible, in my opinion, to be classed with this Society with a record of B.S. 9,48, 2 W.T.B.
 Survey Fee (Spt.) £ : - : } When applied for, 19
 Travelling Expenses (if any) £ : - : } When received, 19

NEW YORK DEC 22 1948

James L. Lloyds
 Engineer Surveyor to Lloyd's Register of Shipping.



PORT BOILER

TS 70,000 lbs.
Hydro 750 lbs.
O.W.P. 500 lbs.
Combustion Engineering Co., Inc.
Steel, Bethlehem Steel Co.
Date 6/3/44
Inspectors Initials C.G.
ABS - SL329 MDM A290B - 2/1/44
Combustion Engineering Co.
No. 9757
C.E.Co. Div. HB-2294-2
Working Pressure 500 lbs.
Test Pressure 1000 lbs. 1/28/44

STBD. BOILER

TS 70,000 lbs.
Hydro 750 lbs.
O.W.P. 500 lbs.
Combustion Engineering Co., Inc.
Steel, Bethlehem Steel Co.
Date 6/3/44
Inspectors Initials C.G.
ABS - SL328 MDM A290B - 2/1/44
Combustion Engineering Co.
No. 9755
C.E.Co. Div. HB-2292-1
Working Pressure 500 lbs.
Test Pressure 1000 lbs. 1/27/44



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