

REPORT ON WATER TUBE BOILERS.

No. 42143

Received at London Office

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of writing Report 10th Feb 1942 When handed in at Local Office Feb 21 1942 Port of New York
 o. in Survey held at Baretter N.J. & Hearn N.J. Date, First Survey 10th Nov 1940 Last Survey 21st January 1942
 g. Bk. on the Tanker "E.W. SINCLAIR" (Number of Visits 45) Gross 10907
 at Hearn, New Jersey By whom built Federal Shipbuilding & Dry Dock Co. When built 1941
 ines made at Lynn, Mass By whom made General Electric Co. When made 1941
 ers made at Baretter N.J. By whom made Foster Wheeler Corporation When made 1941
 ninal Horse Power 1376 Owners Sinclair Refining Co. Port belonging to Wilmington, Delaware

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Boilers 2 Foster Wheeler type P W.T. boilers Working Pressure 52.5 lbs \square Tested by Hydraulic Pressure to 788 lbs \square Date of Test 27/12/41
 of Certificate none issued Can each boiler be worked separately Yes Total Heating Surface of Boilers 4590 sq ft each 2910 each, 20 economisers
 orced draught fitted Yes Area of fire grate (coal) in each Boiler oil fired
 and type of burners (oil) in each boiler 3 Todd "Harpess Wide Range" type
 boiler two 2" Special High Lift Area of each set of valves per boiler { per rule 5.1 \square "
 adjusted 512/14 lbs \square " Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler none fitted Smallest distance between boilers or uptakes and bunkers or woodwork none Height of boiler 20' 3"
 lth and Length 9' 2" x 18' 3" Steam Drums:—Number in each boiler one Inside diameter 42"
 ckness of plates 1 1/32" Range of Tensile Strength 65,000 lbs \square minimum Are drum shell plates welded
 flanged Yes If fusion welded, state name of welding firm Foster Wheeler Corporation Have all the requirements of the rules
 Class I vessels been complied with Yes Description of riveting:—Cir. seams long. seams
 meter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 g. joint: none 90% allowed Rim Diameter of tube holes in drum 2 1/2" & 1 1/2" Pitch of tube holes 4 1/2" & 2 1/2" mean
 centage strength of shell in way of tubes 54.0 & 48.7 Steam Drum Heads or Ends:—Range of tensile strength 65,000 lbs \square minimum
 ckness of plates 1 1/2" & 7/8" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number
 each boiler one Inside Diameter 32" Thickness of plates 1 1/32" Range of tensile strength 65,000 lbs \square minimum Are drum shell plates
 lded flanged Yes If fusion welded, state name of welding firm Foster Wheeler Corporation Have all the requirements of the rules
 Class I vessels been complied with Yes Description of riveting:—Cir. seams long. seam
 meter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 centage strength of long. joint: none 90% allowed Rim Diameter of tube holes in drum 2 1/2" & 1 1/2" Pitch of tube holes 4 1/2" & 2 1/2" mean
 centage strength of drum shell in way of tubes 54.0 & 48.7 Water Drum Heads or Ends:—Range of Tensile strength 65,000 lbs \square minimum
 ckness of plates 1 1/2" & 3/32" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Tested by Hydraulic Pressure to 788 lbs \square
 aders or Sections:—Number 6-7 3/4" square Material steel Thickness 7/8" Steam Dome or Collector:—Description of
 bes:—Diameter 2" & 1 1/4" Thickness .134" & .109" Number 80 & 494 Thickness of shell plates 108 in plan Range of tensile
 nt to Shell none Inside diameter Description of longitudinal joint If fusion welded, state name of welding
 ngth 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
 own or End Plates:—Range of tensile strength Thickness Radius or how stayed
 IPERHEATER. Drums or Headers:—Number in each boiler two - 8 1/2" square Inside Diameter 6 3/4" square
 ckness 1 1/8" Material steel Range of tensile strength solid drawn Are drum shell plates welded
 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. seams
 meter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 g. joint:—Plate Rivet Diameter of tube holes in Header 1 1/32" Pitch of tube holes Percentage strength of
 m shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength
 dius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes 162 - 1 1/4" x .109"
 ted by Hydraulic Pressure to 788 lbs \square Date of Test 27/12/41 Is a safety valve fitted to each section of the superheater which
 be shut off from the boiler cannot be shut off No. and description of Safety Valves one high lift Area of each set
 valves 1.77 sq. inches Pressure to which they are adjusted 473 lbs \square Is easing gear fitted Yes
 Spare Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

FOSTER WHEELER CORPORATION

Jos. J. Helis Manufacturer.

Dates } During progress of } Nov 10/40 - Jan 19 21, 24 28 - Feb 7 - Mar 4, 7, 18, 21, 24 25 - Apr 15 - Is the approved plan of boiler forwarded herewith
 Survey } work in shops - }
 while } During erection on } Oct 4 - 20 - 23 - 27 - 28 - 31. Nov 3 - 6 - 10 - 14 - 19 - 26 - 27 Dec 25, 27 - May 2, 13, 27 - June 17, 1941. Total No. of visits 45
 lding } board vessel - } 1-4-8-12-15-18-27-31. 1941. Jan 2-10-12-15-21. 1942.

this boiler a duplicate of a previous case. Yes If so, state vessel's name and report No. Albert B. Watts RPT 11041562 - Patrick J. Hurby RPT 11041870.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been built in accordance with the rules and approved plans and the workmanship and material are good. They have been fitted on board in accordance with the Rules and approved plans and they are now in good and safe working condition and eligible in our opinion to receive the Notation 52.5 lbs and 2. W. T. B (LPT) in the Register Book.

Survey Fee \$400.00 : When applied for, 11-2-1942
 Travelling Expenses (if any) \$46.00 : When received, 19

Committee's Minute NEW YORK FEB 25 1942

Assigned 2 WTB (Cht) 525 lbs.

E. S. Whitlam for self & C. Macpherson.

Engineer Surveyor to Lloyd's Register of Shipping.