

REPORT ON WATER TUBE BOILERS.

No. 42143

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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 *Barteret N.J. & Kearny 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 Tons *10907* Net Tons *6498*
 t at *Kearny, 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 *Barteret N.J.* By whom made *Foster Wheeler Corporation* When made *1941*
 inial Horse Power *1376* Owners *Sinclair Refining Co* Port belonging to *Wilmington, Delaware*

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

of Approval of plan *5th October 1940* Boilers *2 Foster Wheeler type P W.T. boilers* Working Pressure *52.5 lbs sq* Tested by Hydraulic Pressure to *788 lbs sq* Number and Description or Type *788 lbs sq* 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, 5820 total*

forced draught fitted *Yes* Area of fire grate (coal) in each Boiler *oil fired*

and type of burners (oil) in each boiler *3 Todd "Hoypress Wide Range" type* No. and description of safety valves on boiler *two 2" Special High Lift*

adjusted *5 1/2 / 14 lbs sq* Are they fitted with easing gear *Yes* In case of donkey boilers state whether steam from main boilers can enter donkey boiler *none fitted* Height of boiler *20' 3"*

th and Length *9' 2" x 18' 3"* Steam Drums:—Number in each boiler *one* Inside diameter *42"*

ckness of plates *1 1/8" & 1 1/2"* Range of Tensile Strength *65,000 lbs sq min* Are drum shell plates welded *Yes* Have all the requirements of the rules *Yes*

Class I vessels been complied with *Yes* Description of riveting:—Cir. seams *Yes* long. seams *Yes*

meter of rivet holes in long. seams *Yes* Pitch of rivets *Yes* Thickness of straps *Yes* Percentage strength of g. joint: *90% allowed*

centage strength of shell in way of tubes *54.0 & 48.7* Diameter of tube holes in drum *2 1/2" & 1 1/2"* Pitch of tube holes *4 1/2" & 2 1/2" mean*

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 1/2"* Range of tensile strength *65,000 lbs sq min* Are drum shell plates welded *Yes* Have all the requirements of the rules *Yes*

Class I vessels been complied with *Yes* Description of riveting:—Cir. seams *Yes* long. seam *Yes*

meter of rivet holes in long. seams *Yes* Pitch of rivets *Yes* Thickness of straps *Yes*

centage strength of long. joint: *90% allowed* 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 sq min*

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 sq*

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 *Yes* Description of longitudinal joint *Yes* If fusion welded, state name of welding

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

h of rivets *Yes* Thickness of straps *Yes* Percentage strength of long. joint *Yes* Plate *Yes* Rivet *Yes*

own or End Plates:—Range of tensile strength *Yes* Thickness *Yes* Radius or how stayed *Yes*

UPERHEATER. Drums or Headers:—Number in each boiler *two - 8 1/4" square* Inside Diameter *6 3/4" square*

ckness *1 1/8"* Material *steel* Range of tensile strength *solid drawn* Are drum shell plates welded *Yes*

flanged *Yes* If fusion welded, state name of welding firm *Yes* Have all the requirements of the rules *Yes*

Class I vessels been complied with *Yes* Description of riveting:—Cir. seams *Yes* long. seams *Yes*

meter of rivet holes in long. seams *Yes* Pitch of rivets *Yes* Thickness of straps *Yes* Percentage strength of g. joint:—Plate *Yes* Rivet *Yes*

Diameter of tube holes in *Header 1 1/2"* Pitch of tube holes *Yes* Percentage strength of m shell in way of tubes *Yes*

lius or how stayed *Yes* Drum Heads or Ends:—Thickness *Yes* Range of tensile strength *Yes*

ted by Hydraulic Pressure to *788 lbs sq* 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 sq* Is easing gear fitted *Yes*

are Gear. Has the spare gear required by the rules been supplied *Yes*

The foregoing is a correct description,

FOSTER WHEELER CORPORATION

Joseph J. Helis Manufacturer.

VICE PRESIDENT

Dates } During progress of work in shops - *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 *Yes*
 while } During erection on board vessel - *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*
 building } *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 No 41562 - Patrick J. Hurby No 41870*

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* *M.G.* *E.S. Whitham for self & C. Macpherson* Engineer Surveyor to Lloyd's Register of Shipping.

signed *2 WTB (Cht) 525 lbs.*

