

REPORT ON WATER TUBE BOILERS.

No. 48865

Received at London Office.

18 AUG 1948

Date of writing Report Nov. 30th 19 48 When handed in at Local Office Dec. 3rd 19 48 Port of NEW YORK
 No. in Survey held at Carteret, N.J. Date, First Survey October 25th Last Survey November 26th 19 48
 Reg. Bk. on the Bethlehem Sparrows Point, Hull No. 4467 (Number of Visits 7)
 Gross Tons -
 Net Tons -
 Built at - By whom built - When built -
 Engines made at - By whom made - When made -
 Boilers made at Carteret, N.J. By whom made The Foster Wheeler Corp. When made Nov. 1948
 Nominal Horse Power - Owners - Port belonging to -

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

Date of Approval of plan 25th Aug. 1948 New York Number and Description or Type

of Boilers Drums 2—Fusion Welded Working Pressure 675 lbs Tested by Hydraulic Pressure to 1350 lbs Date of Test 11, 13, Nov.

No. of Certificate Drums B 4407-1 Can each boiler be worked separately - Total Heating Surface of Boilers -

Is forced draught fitted - Area of fire grate (coal) in each Boiler -

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

each boiler - Area of each set of valves per boiler { per rule - Pressure to which they

are adjusted - Are they fitted with easing gear - 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 - Height of boiler -

Width and Length - Steam Drums:—Number in each boiler One Inside diameter 46 7/8"

Thickness of plates Wrapper 1 3/16" tube 3 7/16" Range of Tensile Strength 70,000 lbs. psi Min Are drum shell plates welded

or flanged Welded If fusion welded, state name of welding firm The Foster Wheeler Corp. Have all the requirements of the rules

for Class I vessels been complied with Yes 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 3.026" 1.278" Pitch of tube holes 4.29 Grs 1 7/8L 4 1/2L"

Percentage strength of shell in way of tubes 31.3 Steam Drum Heads or Ends:—Range of tensile strength 70,000 lbs. psi Min.

Thickness of plates 1 3/16" plain Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number

in each boiler One Inside Diameter 30.5" Thickness of plates 2 5/16" Range of tensile strength 70,000 lbs. psi Min

welded or flanged Welded If fusion welded, state name of welding firm The Foster Wheeler Corp. Have all the requirements of the rules

for Class I vessels been complied with Yes 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 3.026" 2.028" Pitch of tube holes 3.72C 4 1/2" 1 7/8"

Percentage strength of drum shell in way of tubes - Water Drum Heads or Ends:—Range of Tensile strength 70,000 lbs. psi Min.

Thickness of plates 1 3/16" Plain 1 3/16" Man Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"

Headers or Sections:—Number - Material - Thickness - Tested by Hydraulic Pressure to -

Tubes:—Diameter - Thickness - Number - 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 - Inside Diameter -

Thickness - Material - 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. 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 - Number, diameter, and thickness of tubes -

Tested by Hydraulic Pressure to - Date of Test - Is a safety valve fitted to each section of the superheater which

can be shut off from the boiler - No. and description of Safety Valves - Area of each set

of valves - Pressure to which they are adjusted - Is easing gear fitted -

Spare Gear. Has the spare gear required by the rules been supplied -

The foregoing is a correct description,
FOSTER WHEELER CORP. A. E. Leasing Manufacturer.

Dates of Survey } During progress of } 25th Oct. 1st, 11th, 13th, 19th, 23rd, Is the approved plan of boiler forwarded herewith No
 while } work in shops - - } 26th, Nov. 1948
 building } During erection on }
 board vessel - - - }

Total No. of visits 7

Is this boiler a duplicate of a previous case - If so, state vessel's name and report No. -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These fusion welded drums have been made and

tested in accordance with the approved plans and Rules for Welded Pressure Vessels and the workmanship

and materials are good. For particulars of tests please see Rprts attached hereto. These drums have

been forwarded to Bethlehem Sparrows Point yard for installation on board Hull No. 4467 and when this

has been done in accordance with the Rules and

to the satisfaction of the Surveyor the vessel

will be eligible in my opinion, to receive the

notation of 2 W.T.B. (Spht) 675 lbs.

Survey Fee To be collected in Baltimore : } When applied for, 19

Travelling Expenses (if any) \$5.00 : } When received, 19

Committee's Minute NEW YORK JUL 27 1949

Assigned See Trust Entry Report BAL. 8911 attached

A. J. Daunders
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation
010519-010525-0251

If not, state whether, and when, one will be sent

Is a Report to sent to the Ship?