

pt. 5c.

REPORT ON WATER TUBE BOILERS.

REC'D NEW YORK MAY 11 1956

No. 10496

Received at London Office.

Date of writing Report 2nd May, 1956 When handed in at Local Office 2nd May, 1956 Port of PHILADELPHIA, PA.
 No. in Survey held at Mountaintop, Pa. Date, First Survey 31st Oct. 1955 Last Survey 1st May, 1956
 Reg. Bk. on the Boiler drums (5568/9) for Hull 1823 (Number of Visits 13) {Gross
 Tons
 Net
 Built at Trieste By whom built Cantieri Riuniti Dell'Adriatico When built
 Engines made at By whom made When made
 Drums Mountaintop, Pa. By whom made Foster Wheeler Corp. When made 1956
 Flanges made at By whom made When made
 Nominal Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Lukens Steel Co., Coatesville, Pa.

Date of Approval of plan 29th July, 1955 Number and Description or Type

Boilers Drums - 2 upper, 2 lower Working Pressure 675 psi Tested by Hydraulic Pressure to 1063 psi Date of Test 28 Mar.
Welded Can each boiler be worked separately Total Heating Surface of Boilers 6710 sq. ft. 16 Apr.
1 May

No. of Certificate forced draught fitted Area of fire grate (coal) in each Boiler 20,980 sq. ft. No. and description of safety valves on

No. and type of burners (oil) in each boiler

Each boiler Area of each set of valves per boiler {per rule
 as fitted Pressure to which they

Are they fitted with easing gear 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

Length and Steam Drums: Number in each boiler One Inside diameter 46-7/8" 24
1-3/16" & 3-7/16" Range of Tensile Strength 70,000 lbs. sq. in. Are drum shell plates welded

Thickness of plates 1-3/16" & 3-7/16" If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules

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 1.278" 2.028" Pitch of tube holes 1-7/8" 4 1/2" (Long.)

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

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

Each boiler one Inside Diameter 30-1/2" Thickness of plates 2-5/16" Range of tensile strength 70,000 Are drum shell plates

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

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 Pitch of tube holes

Percentage strength of drum shell in way of tubes 31.4 min. Water Drum Heads or Ends: Range of Tensile strength 70,000 lbs.

Thickness of plates 13/16" & 1-3/16" Radius or how stayed dished Size of manhole or handhole 12" x 16"

Readers 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

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

Thickness of straps Percentage strength of long. joint Plate Rivet

Rown 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

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

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

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 Corporation Manufacturer.

Dates of Survey During progress of work in shops -- Oct. 31, Nov. 7, 14, 17, Dec. 2, 20, Jan. 27

While building During erection on board vessel --- Feb. 16, 22, Mar. 7, 28, Apr. 16, May 1, 1956

Is the approved plan of boiler forwarded herewith No.

Total No. of visits

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 the requirements of the Rules for Class I Welded Pressure Vessels. The workmanship and materials are good and, in my opinion, these drums are suitable for use in construction of boilers for a vessel intended to be classed with this Society.

Survey Fee £ For: fees When applied for, 2nd May 1956
 Travelling Expenses (if any) £ slip at: When received, 19
 Tacked. NEW YORK MAY 16 1956

Committee's Minute

Assigned Transmit to London

cc: Genoa Surveyors

FRIDAY 25 OCT 1957
 See Rpt. 1

Engineer Surveyor to Lloyd's Register of Shipping
 and Per Conto del Registro Italiano