

REPORT ON WATER TUBE BOILERS.

Received at London Office

16 APR 1953

NEW YORK

5c.

Writing Report 26th Sept 1952 When handed in at Local Office 26th Sept 1952 Port of NEW YORK
 in Survey held at CARTERET, N.J. Date, First Survey 19th June 1952 Last Survey 11th Sept. 1952
 Bk. on the Bethlehem Steel Co. Quincy Hull No. 1630 S.S. CHRYSSI (Number of Visits) Gross Tons Net Tons
 By whom built When built
 By whom made When made
 By whom made Foster - Wheeler Corporation When made 1952
 Owners Orion Shipping Company Port belonging to
 Manufacturers of Steel Bethlehem Steel Corporation

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
 of Approval of plan 17th June 1952 at New York Number and Description or Type
 boilers 4 Drums only - 2 steam 2 water Working Pressure 675 p.s.i. Tested by Hydraulic Pressure to 1013 p.s.i. Date of Test 15th & 22nd May
 of Certificate 1970 Nos. 1 & 2 Can each boiler be worked separately - Total Heating Surface of Boilers 2nd June & 7 Aug. 1952
 of draughts fitted Area of fire grate (coal) in each boiler
 and type of burners (oil) in each boiler No. and description of safety valves on

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

h and Length Steam Drums: Number in each boiler One Inside diameter 48"
 Thickness of plates 1 3/16" Wrapper 3 7/16" Tube Range of Tensile Strength 70,000 P.S.I. Min Are drum shell plates welded
 changed Welded 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

Percentage strength of long seams Diameter of tube holes in drum 1.278" 3.026" Pitch of tube holes 1.875" 4.5"
 Percentage strength of shell in way of tubes 31-3 & 54.7 Steam Drum Heads or Ends: Range of tensile strength 70,000 P.S.I. Min
 Thickness of plates Plain 1 3/16" 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 PSI Min Are drum shell plates
 welded or flanged Welded 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

Percentage strength of drum shell in way of tubes 31-3 & 54.7 Water Drum Heads or Ends: Range of Tensile strength 70000 PSI Min
 Thickness of plates Plain 13/16" Man 1 3/16" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"
 Headers or Sections: Number Material Thickness Tested by Hydraulic Pressure to
 Diameter Thickness Number Steam Dome or Collector: Description of
 to Shell Inside diameter Thickness of shell plates Range of tensile
 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
 Radius or how stayed
 Inside Diameter

PERHEATER. Drums or Headers: Number in each boiler
 Thickness Material Range of tensile strength Are drum shell plates welded
 changed 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
 joint: Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of
 in 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
 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

are Gear. Has the spare gear required by the rules been supplied
 The foregoing is a correct description,
 FOSTER WHEELER CORP. A. E. Leating Manufacturer.

Is the approved plan of boiler forwarded herewith
 Total No. of visits 10
 Dates Survey 19th & 24th June 1952
 while work in shops 1, 3, 10, 18 & 21 July
 building During erection on board vessel 7 Aug. 9 & 11 September

his boiler a duplicate of a previous case No 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 & Requirements for Class and Fusion Welding and the
 workmanship and materials are good. When the Drums have been installed on board, Bethlehem Steel
 Co. Quincy Hull No. 1630 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 WTB(Spt)675 P.S.I.
 Survey Fee \$400. - When applied for, MAR 26 1953
 Travelling Expenses (if any) \$38. - When received, 19
 HEADERS, TUBES, ETC (CLV & C) \$200. -

Committee's Minute NEW YORK MAR 25 1953
 signed See 1st Entry Rpt. attached. R.F.K. 53229

Engineer Surveyor to Lloyd's Register of Shipping.

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