

REPORT ON WATER TUBE BOILERS.

Received at London Office 16 APR 1953

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
 on the Bethlehem Steel Co. Quincy Hull No. 1630 S.S. CHRYSI (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

Approval of plan 17th June 1952 at New York Number and Description or Type
 of 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
 2nd June & 7 Aug. 1952

of Certificate B1970 Nos. 1&2 Can each boiler be worked separately - Total Heating Surface of Boilers _____
 of draughts fitted B1971 Nos. 1&2 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 _____ Pressure to which they
 as fitted _____

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 _____

Number 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: _____ long seams _____

Percentage strength of shell in way of tubes 31-3 & 54.7 Diameter of tube holes in drum 1.278" 2.028" 3.026" Pitch of tube holes 1.875" 4.5"
 Thickness of plates Plain 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 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: _____ 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 _____

Steam Dome or Collector: Description of _____ Range of tensile _____

to Shell _____ Inside diameter _____ Thickness of shell plates _____ If fusion welded, state name of welding _____

Length _____ Description of longitudinal joint _____ Diameter of rivet holes _____

Have all the requirements of the rules for Class I vessels been complied with _____ Plate _____ Rivet _____

Number of rivets _____ Thickness of straps _____ Percentage strength of long joint _____ Radius or how stayed _____

Down or End Plates: Range of tensile strength _____ Thickness _____

Superheater. Drums or Headers: Number in each boiler _____ Are drum shell plates welded _____

Thickness _____ Material _____ Range of tensile strength _____ Have all the requirements of the rules _____

changed _____ If fusion welded, state name of welding firm _____ long seams _____

Class I vessels been complied with _____ Description of riveting: _____

Diameter of rivet holes in long seams _____ Pitch of rivets _____ Thickness of straps _____ Percentage strength of _____

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 _____

Easing Gear. Has the spare gear required by the rules been supplied _____

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

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

This 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 1952
 Travelling Expenses (if any) \$38. - When received, 19
 HEADERS, TUBES, ETC (CLV & L) \$200. -

Committee's Minute NEW YORK MAR 25 1953
 signed See 1st Entry Rpt. attached. R.F.K. 53229
 H. J. Saunders and P. G. ...
 Engineer Surveyor to Lloyd's Register of Shipping.