

REPORT ON WATER TUBE BOILERS.

No. 57820

Received at London Office

Date of writing Report Oct. 16, 1953 When handed in at Local Office Oct. 16, 1953 Port of NEW YORK **17 NOV 1953**

No. in Survey held at Carteret, N. J. Date, First Survey March 13th Last Survey Sept. 28th 19 53

Reg. Bk. on the Cantieri Riuniti Del Adriatico, Trieste, Italy, Hull No. 1775 (Number of Visits 16) {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 Foster Wheeler Corp. When made 1953

Nominal Horse Power _____ Owners _____ Port belonging to _____

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel SHELLS: Lukens - HEADS: Claymont

Date of Approval of plan April 21, 1952 Number and Description or Type of Boilers 4 Drums only; 2 Steam, 2 Water Working Pressure 675 Tested by Hydraulic Pressure to 1013 Date of Test June 9 & Sept. 2 18

No. of Certificate B-5096 No. 1 & 2 Can each boiler be worked separately - Total Heating Surface of Boilers -

B-5097 No. 1 & 2 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 _____ as fitted _____} 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 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 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 flanged Welded If fusion welded, state name of welding firm 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 1.278" : 2.026" 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 69,000 PSI MIN

Thickness of plates 1-3/16" Plain Radius or how stayed Man. Elipsoidal 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 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 1.278" : 2.026" Pitch of tube holes 1.875" : 4.5"

Percentage strength of drum shell in way of tubes 31.3 & 54.7 Water Drum Heads or Ends:—Range of Tensile strength 70,000 PSI MIN

Thickness of plates 13/16" Plain; 1-3/16" Man. Radius or how stayed Elipsoidal 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 _____ Range of tensile strength _____

Inside diameter _____ Thickness of shell plates _____ 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 _____

Down 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 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 _____

Is spare gear required by the rules been supplied _____

The foregoing is a correct description,
A. E. Keating Manufacturer.

Dates of Survey: During progress of work in shops - - March 13, 25 June 9, 18 Is the approved plan of boiler forwarded herewith _____
 During erection on board vessel - - April 9, 10 July 9, 13, 14 Total No. of visits 16
May 14, 21 Sept. 2, 23, 24, 28

Is boiler a duplicate of a previous case Yes If so, state vessel's name and report No. Hull No. 1773

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 Requirements for Class 1 Fusion Welding and the workmanship and materials are good. When the drums have been installed on board Cantieri Riuniti Hull No. 1773 according to the Rules and to the satisfaction of the Society's Surveyors, the vessel will be eligible, in my opinion, to receive the notation of 2 WT (SPT) 675 PSI

Survey Fee See LR/RI fee: slips attached. When applied for, Oct 20 1953
 Travelling Expenses (if any) _____ When received, _____ 1953

Committee's Minute NEW YORK OCT 28 1953
 Signed Transmit to London
 J. David Dick
 Engineer Surveyor to Lloyd's Register of Shipping
 TUESDAY 14 SEP 1954
 See Tri. Rpt. 4a.