

REPORT ON WATER TUBE BOILERS.

No. 10222

Received at London Office 29 JUN 1954

of writing Report 7th May 1954 When handed in at Local Office _____ 19____ Port of Baltimore, Maryland
 in Survey held at Sparrows Point, Maryland Date, First Survey 3rd Dec. 1953 Last Survey 27th April 1954
 on the S.S. JOHN P.G. (Number of Visits 12) { Gross 18717
 Tons { Net 11587
 at Sparrows Point, Maryland By whom built Bethlehem Sparrows Point Shipyard Inc when built 1954
 es made at Quincy, Mass. By whom made Bethlehem Steel Co. When made 1953
 rs made at Carteret, N.J. By whom made Foster Wheeler Corp. When made 1953
 inal Horse Power 3,000 Owners Bilboa Compania Naviera S.A. Port belonging to Panama

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

of Approval of plan 19th March 1952 Number and Description or Type Two-Type @ Steam Generators

Boilers Two-Type @ Steam Generators Working Pressure 675 p.s.i. Tested by Hydraulic Pressure to 1013 p.s.i. Date of Test 14th Jan. 54

of Certificate Can each boiler be worked separately yes Total Heating Surface of Boilers 21134 sq. ft.

forced draught fitted yes Area of fire grate (coal) in each Boiler oil fired

and type of burners (oil) in each boiler 3-Todd Hexpress No. and description of safety valves on boiler Two-1 1/2" Crosby Improved High Lift

adjusted 660, 675 p.s.i. Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter donkey boiler no donkey blr. Smallest distance between boilers or uptakes and bunkers or woodwork not near Height of boiler 24' 11 1/2"

th and Length 18-7" X 13-7" Steam Drums:—Number in each boiler one Inside diameter 48"

thness of plates Wrapper 1 3/16, Tube 3 7/16 min Range of Tensile Strength 70,000 p.s.i. Are drum shell plates welded welded

anged 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. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of joint:—Plate - Rivet - Diameter of tube holes in drum 1.278", 2.028", 3.028" Pitch of tube holes 1.875", 3.72", 4.5"

entage 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.

thness of plates Plain 1 3/16" M.H. 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 3/4" Thickness of plates 2 5/16" Range of tensile strength 70,000 p.s.i. 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 -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of joint:—Plate - Rivet - Diameter of tube holes in drum 1.278", 2.028", 3.028" Pitch of tube holes 1.875", 3.72"

entage strength of drum shell in way of tubes 31, 3, 54, 7 Water Drum Heads or Ends:—Range of Tensile strength 70,000

thness of plates PL 13/16", M.H. 1 3/16" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" X 16"

ders or Sections:—Number 3-7 1/2" sq. Material S.S. Pipe Thickness .906" Tested by Hydraulic Pressure to 1013 p.s.i.

es:—Diameter 1 1/4", 2", 3" Thickness 12, 9, 6, B.W.G. Number 1252-1 1/2", 66-2" Steam Dome or Collector:—Description of 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 -

Thickness of straps - Percentage strength of long. joint - Plate - Rivet -

own or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

UPERHEATER. Drums or Headers:—Number in each boiler Two Outside Diameter 10.75"

Material Carbon Moly. U.S.C.G. Class B, GR. PI Range of tensile strength 60,000 p.s.i. Are drum shell plates welded 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. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of joint:—Plate - Rivet - Diameter of tube holes in drum 2.028", 1.270" Pitch of tube holes 1 7/8" Percentage strength of drum shell in way of tubes - Drum Heads or Ends:—3 1/2" Dia. end plug Thickness 1 1/2" Range of tensile strength 60,000

us or how stayed rolled flat with sealed welded plugs Size of manhole or handholes 2 3/4" X 3 3/8" Number, diameter, and thickness of tubes 68-1 1/2"

ed by Hydraulic Pressure to 1013 p.s.i. Date of Test 14th Jan. 1954 Is a safety valve fitted to each section of the superheater which be shut off from the boiler - No. and description of Safety Valves One 1 1/2" Crosby improved high lift Area of each set valves 1.767 sq. ins. Pressure to which they are adjusted 624 p.s.i. Is easing gear fitted yes

are Gear. Has the spare gear required by the rules been supplied yes

The foregoing is a correct description,

Manufacturer.

Is the approved plan of boiler forwarded herewith yes

During progress of work in shops - During erection on board vessel - Dec. 3, 30, Jan. 5, 6, 7, 8, 11, 12, 13, 14, April 23, 27. Total No. of visits 12

Is boiler a duplicate of a previous case yes If so, state vessel's name and report No. S.S. ANDROS SEA, Baltimore No 91752

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boiler Foster Wheeler Nos. 3644-45 have been constructed and erected on board the vessel under Special Survey in accordance with the approved plans. Please refer to report No. 52907, New York. The workmanship and material are good. Boilers were hydrostatically tested in place and examined under steam, and are eligible in my opinion to be classed with the Society and the notation 2 W.T. Boilers 675 lbs. F.D. MADE IN The register Book

Survey Fee £ : : } When applied for, 19

Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute NEW YORK JUN 9 1954

signed 2 WTB (RLE) 675 lbs / 0'

D.H. McKenzie 2020
Engineer Surveyor to Lloyd's Register of Shipping.

