

REPORT ON WATER TUBE BOILERS.

N. Y. K.
No. 53551.

Received at London Office.

Date of writing Report Oct. 8th 1954 When handed in at Local Office 1954 Port of NEW YORK
 No. in Survey held at Quincy, Massachusetts Date, First Survey June 7th Last Survey Oct 8th 1954
 Reg. Bk. on the steel, screw, steamer "Master Peter" (Number of Visits cont.) Gross 18,763
 Tons Net 11,609
 Built at Quincy, Massachusetts By whom built Bethlehem Steel Co. When built 1954
 Engines made at Quincy, Mass. By whom made Bethlehem Steel Co. When made 1954
 Boilers made at Carteret, N. J. By whom made Forster, Wheeler Corporation When made 1954
 Nominal Horse Power 3,000 Owners Bilbao Compania Naviera S.A. Port belonging to Panama, R. P.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.Date of Approval of plan July 8th 1953 Number and Description or Typeof Boilers 2 "II" type, oil fired 85236 + 7 Working Pressure 675 lbs Tested by Hydraulic Pressure to 1013 lbs Date of TestNo. of Certificate 85236 + 85237 Can each boiler be worked separately Yes Total Heating Surface of Boilers 21,130 sq. ft.Is forced draught fitted Yes Area of fire grate (coal) in each BoilerNo. and type of burners (oil) in each boiler Four - Todd Mechanical Atomization No. and description of safety valves oneach boiler one - superheater safety valve Area of each set of valves per boiler { per rule 2.9 sq. ins Pressure to which theyTwo - boiler safety valves. { as fitted 3.52 sq. insare adjusted 660 + 675 lbs/sq. in. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enterthe donkey boiler No Smallest distance between boilers or uptakes and bunkers or woodwork No woodwork Height of boiler 24'-11 1/2"Width and Length 18'-7" x 14'-10 3/8" Steam Drums:—Number in each boiler one Inside diameter 3'-9 3/4"Thickness of plates 3 1/16" bottom, 1 3/16" top. Range of Tensile Strength 70,000 lbs. Are drum shell plates weldedor flanged Welded. If fusion welded, state name of welding firm Forster, Wheeler Corporation Have all the requirements of the rulesfor 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 oflong. joint:—Plate — Rivet — Diameter of tube holes in drum 1.288" + 2.038" Pitch of tube holes 1.875" + 4.5"Percentage strength of shell in way of tubes 31.9% + 54.7% Steam Drum Heads or Ends:—Range of tensile strength 70,000 lbs.Thickness of plates man. 1 3/16" plain 1 3/16" Radius or how stayed elipsoidal Size of manhole or handhole 16" x 12" Water Drums:—Numberin each boiler one Inside Diameter 30 1/2" Thickness of plates 25 1/16" min. Range of tensile strength 70,000 lbs. Are drum shell plateswelded or flanged Welded. If fusion welded, state name of welding firm Forster, Wheeler Corp. Have all the requirements of the rulesfor 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 1.288" + 2.038" Pitch of tube holes 1.875" + 4.5"Percentage strength of drum shell in way of tubes 31.9% + 54.7% Water Drum Heads or Ends:—Range of Tensile strength 70,000 lbs.Thickness of plates man. 1 3/16" plain 1 3/16" Radius or how stayed elipsoidal Size of manhole or handhole 16" x 12"Headers or Sections:—Number 3. Material ASTM A 106-46 Thickness 7/16" outside square Tested by Hydraulic Pressure to 1013 lbs/sq. in.Tubes:—Diameter 1 1/4", 2" + 3" O.D. Thickness 3/16" - 5/16" B.W.G. Number 14 - 1254. 3" - 12 Steam Dome or Collector:—Description ofJoint to Shell — Inside diameter 3" - 9. 3 B.W.G. Thickness of shell plates — Range of tensilestrength — Description of longitudinal joint — If fusion welded, state name of weldingfirm — 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 —Crown or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —SUPERHEATER. Drums or Headers:—Number in each boiler Four. Inside Diameter —Thickness 1 1/2" Material outlet - alloy steel - U.S.C.G. par. 34 - class 'B' gr. R.I. certified 55,000 lbs.or flanged seamless inlet - carbon steel - U.S.C.G. par. 51 - 34 - 1 to 51 - 34 - 50 class 'B' grade 'B' cert. 60,000 lbs. Are drum shell plates weldedfor 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 oflong. joint:—Plate — Rivet — Diameter of tube holes in drum 1.27" Pitch of tube holes 1 7/8" + 1 1/4" Percentage strength ofdrum shell in way of tubes — Drum Heads or Ends:—Thickness 7/8" min. Range of tensile strength 65,000 lbs.Radius or how stayed — Size of manhole or handhole — Number, diameter, and thickness of tubes 188 - 1 1/4" O.D. - 12" wall.Tested by Hydraulic Pressure to 1013 lbs/sq. in. Date of Test — Is a safety valve fitted to each section of the superheater whichcan be shut off from the boiler No No. and description of Safety Valves one - outlet section - Crosby. Area of each setof valves 1.76 sq. ins. Pressure to which they are adjusted 624 lbs/sq. in. Is easing gear fitted Yes.Spare Gear. Has the spare gear required by the rules been supplied Yes.

The foregoing is a correct description,

E. J. Sullivan Manufacturer.

Dates of Survey } During progress of work in shops - - - } please see report N.Y.K. 52989 attached the approved plan of boiler forwarded herewith No.
 while } During erection on board vessel - - - } continuous
 building

this boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. S/S Chryssi N.Y.K. 52229.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These main boilers, now installed satisfactorily in accordance with the rules & approved plans, examined under hydraulic test & working conditions, safety valves adjusted to pressures stated above. The workmanship throughout is satisfactory and in my opinion, these boilers are eligible to have the notation 2 W.T.B. (Spt.) 675 lbs/sq. in.

Survey Fee £ : : } When applied for, 19
 Travelling Expenses (if any) £ : : } When received, 19

Committee's Minute NEW YORK NOV 17 1954
 Signed 2 WTB (Spt.) 675 lbs. sq. in.

W. P. Holmes

Engine Surveyor to Lloyd's Register of Shipping.

© 2021

Lloyd's Register
Foundation

008217-008221-0120