

REPORT ON WATER TUBE BOILERS.

No. N.Y.K. 52639.

Received at London Office.

of writing Report Aug. 14th 1953 When handed in at Local Office 19 Port of NEW YORK
 o. in Survey held at Quincy, Mass. Date, First Survey March 23rd Last Survey Aug. 11th 1953
 g. Bk. on the steel, screw, "ANDROS HILLS" (Number of Visits cont.) { Gross 18,735.98
 Tons { Net 11,603.
 at Quincy, Mass. By whom built Bethlehem Steel Co. When built 1953.
 ines made at Quincy, Mass. By whom made Bethlehem Steel Co. When made 1953.
 ers made at Carteret, N.J. By whom made Foster Wheeler Corporation When made 1953.
 ninal Horse Power 3,000 Owners Rio Venturado Compania Nav. Port belonging to Panama, R. P.

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.
 of Approval of plan 17th June 1952, New York. Number and Description or Type
 Boilers Two, II' type, oil fired Working Pressure 675 lbs/□" Tested by Hydraulic Pressure to 1013 lbs/□" Date of Test 24 June 53.
 of Certificate B 5003 M. 1 + 2 Can each boiler be worked separately Yes. Total Heating Surface of Boilers 21,130 sq. ft.
 forced draught fitted Yes. Area of fire grate (coal) in each Boiler
 and type of burners (oil) in each boiler Four, Todd mechanical atomization No. and description of safety valves on
 boiler Two, boiler safety valves. Area of each set of valves per boiler { per rule 2.9 sq. ins Pressure to which they
624 lbs/□" as fitted 3.52 sq. ins
 adjusted 660 + 675 lbs/□" Are they fitted with easing gear Yes. 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 24'-11 1/2"
 th and Length 18'-7" x 14' x 10 3/4" Steam Drums:—Number in each boiler one Inside diameter 3'-0 3/4" average
 kness of plates 3/16" bott.; 1/16" top Range of Tensile Strength 70,000 lbs. Are drum shell plates welded
 laged 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 —
 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 3.026" Pitch of tube holes 4.3"
 entage strength of shell in way of tubes 31.3 + 54.7 Steam Drum Heads or Ends:—Range of tensile strength 70,000 lbs.
 kness of plates 1/16" plain Radius or how stayed ellipsoidal Size of manhole or handhole 16" x 12" Water Drums:—Number
 ach boiler one Inside Diameter 2'-6 1/2" Thickness of plates 2 5/16" Range of tensile strength 70,000 lbs. Are drum shell plates
 led 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
 entage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum 3.026" Pitch of tube holes 4.5"
 entage strength of drum shell in way of tubes 31.3 + 54.7 Water Drum Heads or Ends:—Range of Tensile strength 70,000 lbs.
 kness of plates 1/16" plain, 1/16" manhole Radius or how stayed — Size of manhole or handhole 16" x 12"
 ders or Sections:—Number 3. Material Steel A.S.T.M. Thickness 7/16" outside square Tested by Hydraulic Pressure to 1013 lbs/□"
 es:—Diameter 1 1/4", 2" + 3" O.D. Thickness 2" - 2 1/2" B.W.G. Number 2" - 208 3" - 12 Steam Dome or Collector:—Description of
 to Shell — Inside diameter 3" - 9" B.W.G. Thickness of shell plates — Range of tensile
 gth — 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 —
 b of rivets — Thickness of straps — Percentage strength of long. joint — Plate — Rivet —
 wn or End Plates:—Range of tensile strength — Thickness — Radius or how stayed —

PERHEATER. Drums or Headers:—Number in each boiler Four Inside Diameter 55,000 lbs.
 kness 1 1/2" outlet Alloy steel - U.S.C.G. par. 34-34 class 'B' gr. R1. certified 60,000 lbs. Are drum shell plates welded
 laged Seamless inlet Carbon steel - U.S.C.G. par. 51-34-14 51-34-50 class 'B' grade 'B' cert. 60,000 lbs. 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 1.270" Pitch of tube holes 1 3/4", 1 1/8" Percentage strength of
 a shell in way of tubes — Drum Heads or Ends:—Thickness 7/8" min. Range of tensile strength 65,000.
 us or how stayed — Size of manhole or handhole — Number, diameter, and thickness of tubes 188-1 1/4" O.D. 120" wall.
 ed by Hydraulic Pressure to 1013 lbs/□" Date of Test July 21st 1953. Is a safety valve fitted to each section of the superheater which
 be shut off from the boiler No. No. and description of Safety Valves one, outlet section, Crosby - Ashton Area of each set
 alves 1.76 sq. ins. each. Pressure to which they are adjusted 624 lbs/□" Is easing gear fitted Yes.
 re Gear. Has the spare gear required by the rules been supplied Yes.

The foregoing is a correct description,

W. S. Holmes Manufacturer.

Is the boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. S/S CHRYSSI No. N.Y.K. 52229.
 During progress of work in shops — please see report no. 52287 Is the approved plan of boiler forwarded herewith No.
 During erection on board vessel — continuous. Total No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These mainboilers have now been installed
satisfactorily in accordance with Rules & approved drawings, examined under steam, safety valves
adjusted & accumulation tests carried out. The workmanship throughout is good.
In my opinion, these boilers are eligible to have the notation 2 W.T.B (Spt.) 675 lbs/□"

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

Committee's Minute NEW YORK AUG 26 1953
 Signed 2 WTB (Spt) 675 lbs. □"

Engineer Surveyor to Lloyd's Register of Shipping.