

# REPORT ON WATER TUBE BOILERS.

LOW PRESSURE STEAM GENERATOR.

No. N.YK. 52639.

Received at London Office. **SEP 1953**  
 Date of writing Report Aug; 8th. 1953. When handed in at Local Office. 1953  
 No. in Survey held at Quincy, Massachusetts. Port of NEW YORK.  
 Date, First Survey January 20th. 53 Last Survey August 7th. 1953.  
 g. Bk. on the Steel Screw Steamer "ANDROS HILLS" (Number of Visits cont; ) { Gross 18,735.98.  
 It at Quincy, Massachusetts. Tons { Net 11,603.  
 By whom built Bethlehem Steel Company. When built 1953.  
 gines made at Quincy, Mass; By whom made Bethlehem Steel Company  
 lers made at Carteret, N.J. By whom made Foster Wheeler Corporation. When made 1953.  
 iminal Horse Power 3,000. Owners Rio Venturado Compania Naviera S.A. When made 1953.  
 Port belonging to Panama, R.P.

**WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.**—Manufacturers of Steel Bethlehem Steel Co;

Date of Approval of plan February 29th 1952.  
 Boilers 1 - L.P. Steam Generator. Working Pressure 125 lbs. Tested by Hydraulic Pressure to 355 lbs. Number and Description or Type  
 of Certificate. Can each boiler be worked separately one only Date of Test Mar. 16. 53.  
 forced draught fitted --- Total Heating Surface of Boilers 355 sq. ft;  
 and type of burners (oil) in each boiler unfired Area of fire grate (coal) in each boiler L.P. Steam Generator, unfired.

No. and description of safety valves on  
 b boiler Two - four inch relief valves "angle" Area of each set of valves per boiler { per rule ---  
 adjusted 125 lbs/sq. in. Are they fitted with easing gear yes. { as fitted 25.12sq. ins; Pressure to which they  
 donkey boiler --- In case of donkey boilers state whether steam from main boilers can enter

width and Length 6'-9" & 11'-9" Steam Drums:—Number in each boiler one Height of boiler ---  
 thickness of plates 1/2" Range of Tensile Strength 55,000 to 65,000 lbs. Inside diameter 4' - 5"  
 flanged welded If fusion welded, state name of welding firm Bethlehem Steel Co; Are drum shell plates welded  
 Class I vessels been complied with yes Description of riveting:—Cir. seams --- Have all the requirements of the rules  
 diameter of rivet holes in long. seams --- Pitch of rivets --- long. seams ---

g. joint:—Plate 90% Rivet --- Thickness of straps --- Percentage strength of  
 percentage strength of shell in way of tubes --- Diameter of tube holes in drum --- Pitch of tube holes ---  
 thickness of plates front hd 3/8" Radius or how stayed 48" radius Steam Drum Heads or Ends:—Range of tensile strength  
 each boiler back hd 1/2" Size of manhole or handhole 16" x 12"

Water Drums:—Number  
 dled or flanged --- If fusion welded, state name of welding firm --- Are drum shell plates  
 Class I vessels been complied with --- Description of riveting:—Cir. seams --- Have all the requirements of the rules  
 diameter of rivet holes in long. seams --- Pitch of rivets --- long. seam ---  
 percentage strength of long. joint:—Plate --- Rivet --- Thickness of straps ---  
 percentage strength of drum shell in way of tubes --- Diameter of tube holes in drum --- Pitch of tube holes ---

Water Drum Heads or Ends:—Range of Tensile strength  
 thickness of plates --- Radius or how stayed --- Size of manhole or handhole ---  
 leaders or Sections:—Number --- Material --- Thickness --- Tested by Hydraulic Pressure to ---  
 tubes:—Diameter 1" outside dia; Thickness 0.072" Number 147  
 inside tube plate --- Inside diameter 3'-2 7/8" Thickness of shell plates 1.5" tube plate 2 1/8"  
 outside tube plate --- Range of tensile strength 55,000 to 65,000 lbs.  
 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 ---  
 thickness of straps --- Percentage strength of long. joint --- Plate --- Rivet ---  
 Town or End Plates:—Range of tensile strength --- Thickness --- Radius or how stayed ---  
 UPPERHEATER. 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  
 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  
 g. joint:—Plate --- Rivet --- Diameter of tube holes in drum --- Pitch of tube holes --- Percentage strength of

Drum Heads or Ends:—Thickness --- Range of tensile strength ---  
 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 ---

Spare Gear. Has the spare gear required by the rules been supplied ---  
 The foregoing is a correct description,  
G. J. Sullivan Manufacturer.  
 Is the approved plan of boiler forwarded herewith No.  
 Total No. of visits continuous.

Dates } During progress of work in shops continuous  
 Survey 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. N.YK. 52229 s/s "CHRYSSI"

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This L.P. Steam generator is a two pass, shell and tube unit with submerged tubes heating surface. Shell, heads tube plates, baffles of steel, tubes of copper nickel, tube nest heads, cast steel. Unit built under special survey in accordance with the approved plans. Workmanship & materials are good throughout. Examined under hydraulic test in shop and under working conditions on vessel, safety valves adjusted under steam, all found to be satisfactory.  
 Survey Fee --- £ : : When applied for, 19  
 Travelling Expenses (if any) £ : : When received, 19

Committee's Minute NEW YORK AUG 26 1953  
 signed As attached 1st entry Rpt.  
 Engineer Surveyor to Lloyd's Register of Shipping.  
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