

REPORT ON WATER TUBE BOILERS

16 APR 1953

Received at London Office

5c.

Writing Report Feb. 26th 1953 When handed in at Local Office... Port of Quincy, Mass.
Survey held at Quincy, Mass. Date, First Survey Sept 20th 1952 Last Survey Feb. 26th 1953
on the steel screw steamer "CHRYSSI" (Number of Visits 1630) Tons {Gross 18732, Net 11,652}
Quincy, Mass. By whom built Bethlehem Steel Co. When built 1953.
Quincy, Mass. By whom made Bethlehem Steel Co. When made 1953.
Carteret, N.J. By whom made Foster Wheeler Corp. When made 1953.
Nominal Horse Power 15,000. Owners Santander Compania Naviera S.A. Port belonging to Panama R.P.

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

Approval of plan 13th Dec. 1948 New York. Number and Description or Type Low pressure steam generator Working Pressure 125 lbs. Tested by Hydraulic Pressure to 250 lbs. Date of Test Oct. 20th 52

of Certificate Can each boiler be worked separately one only Total Heating Surface of Boilers 355 sq. ft.

draught fitted. Area of fire grate (coal) in each Boiler Unfired

type of burners (oil) in each boiler No. and description of safety valves on boiler 2—4" angle relief valves Area of each set of valves per boiler {per rule, as fitted 25.12 Pressure to which they

adjusted 125 lbs/sq. in. 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

width and Length 6'-9" x 11'-9 1/2" Steam Drums:—Number in each boiler one Inside diameter 4'-5"

thickness of plates 1/2" Range of Tensile Strength 55,000 - 65,000 lbs. Are drum shell plates welded

method welded If fusion welded, state name of welding firm Bethlehem Steel Co. Have all the requirements of the rules

Class II 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

joint:—Plate 90% Rivet Diameter of tube holes in drum Pitch of tube holes

percentage strength of shell in way of tubes Steam Drum Heads or Ends:—Range of tensile strength 55,000 - 65,000 lbs.

thickness of plates Front 1/2" back 1/2" Radius or how stayed 48" dished Size of manhole or handhole 16" x 12" Water Drums:—Number

each boiler Inside Diameter Thickness of plates Range of tensile strength Are drum shell plates

rolled or 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. 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 Pitch of tube holes

percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of Tensile strength

thickness of plates Radius or how stayed Size of manhole or handhole

headers or Sections:—Number Material Thickness Tested by Hydraulic Pressure to

plates:—Diameter 1" o.d. Thickness .072" Number 147 Steam Dome or Collector:—Description of

to shell, inside tube sheet Inside diameter 3'-2 7/8" Thickness of shell plates 2" Range of tensile

strength 55,000 - 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

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

awn 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

changed 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

joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of

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

valves Pressure to which they are adjusted Is easing gear fitted

Easing Gear. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

M. J. Sullivan Manufacturer.

Is the approved plan of boiler forwarded herewith No. Total No. of visits continuous

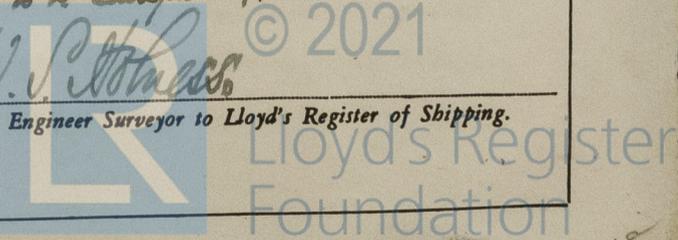
Is this boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. S/S Failaika Report No. N.Y.K. 51739.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This L.P. steam generator is a horizontal, two pass shell & tube type unit with submerged tube heating surface. Shell, heads, tube sheets, baffles of steel, tubes of copper nickel & tube nest heads of cast steel. Unit built under special survey in accordance with approved plans, workmanship & materials good. Hydrostatically tested with all fittings, examined under working conditions & all found to be satisfactory.

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

Committee's Minute NEW YORK MAR 25 1953

signed See attached 1st Entry Report.



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