

REPORT ON WATER TUBE BOILERS.

LOW PRESSURE STEAM GENERATOR

No. N.Y.K. 52229.

Received at London Office

16 APR 1953

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

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.
 of Approval of plan 13th Dec. 1948 New York. Number and Description or Type
 oiler Low pressure steam generator Working Pressure 125 lbs Tested by Hydraulic Pressure to 250 lbs Date of Test Oct. 20th 52
 of Certificate L.P. steam gen. Can each boiler be worked separately one only Total Heating Surface of Boilers 35539 sq. ft.
 ced draught fitted ✓ Area of fire grate (coal) in each Boiler Unfired
 nd 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 25.12 Pressure to which they
 as fitted 25.12
 djusted 125 lbs/10" 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
 b and Length 6'-9" x 11'-9 1/2" Steam Drums: Number in each boiler one Inside diameter 4'-5"
 nness of plates 1/2" Range of Tensile Strength 55,000 - 65,000 lbs Are drum shell plates welded
 nged 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 ✓
 eter 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 ✓
 ntage strength of shell in way of tubes ✓ Steam Drum Heads or Ends: Range of tensile strength 55,000 - 65,000 lbs
 nness of plates Plate 48" 5/8" Radius or how stayed 48" dished rad. Size of manhole or handhole 16" x 12" Water Drums: Number
 ch boiler back 40 1/2" Inside Diameter — Thickness of plates — Range of tensile strength — Are drum shell plates
 ed 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 —
 eter of rivet holes in long. seams — Pitch of rivets — Thickness of straps —
 ntage strength of long. joint:—Plate — Rivet — Diameter of tube holes in drum — Pitch of tube holes —
 ntage strength of drum shell in way of tubes — Water Drum Heads or Ends: Range of Tensile strength —
 kness of plates — Radius or how stayed — Size of manhole or handhole —
 ders or Sections: Number — Material — Thickness — Tested by Hydraulic Pressure to —
 es: Diameter 1" O.D. Thickness .072" Number 147 Steam Dome or Collector: Description of
 to shell outside tube sheet Inside diameter 3'-2 7/8" Thickness of shell plates 2" S. tube sheet 2" Range of tensile
 gth 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 —
 wn or End Plates: Range of tensile strength — Thickness — Radius or how stayed —
 PERHEATER. Drums or Headers: Number in each boiler — Inside Diameter —
 kness — Material — Range of tensile strength — Are drum shell plates welded
 langed — 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 —
 eter 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
 n shell in way of tubes — Drum Heads or Ends: Thickness — Range of tensile strength —
 us or how stayed — Size of manhole or handhole — Number, diameter, and thickness of tubes —
 ed 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
 alves — Pressure to which they are adjusted — Is easing gear fitted —

re Gear. Has the spare gear required by the rules been supplied —

The foregoing is a correct description,

R. L. Sullivan Manufacturer.

Is the approved plan of boiler forwarded herewith NO.
 Total No. of visits continuous
 During progress of work in shops continuous Sept. 20th 1952 to Feb 1953
 During erection on board vessel —

his boiler a duplicate of a previous case YES. If so, state vessel's name and report No. SS 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 £ : } When applied for, 19
 Travelling Expenses (if any) £ : } When received, 19

Committee's Minute NEW YORK MAR 25 1953
 signed See attached 1st Entry Report.

Engine Surveyor to Lloyd's Register of Shipping.

011047-011056-0354