

REPORT ON WATER TUBE BOILERS.

No. 11353

Received at London Office

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Writing Report Dec. 18th. 1957 When handed in at Local Office 24/3/1958 Port of Baltimore, Maryland

Survey held at Baltimore Date, First Survey Oct. 21st. 1957 Last Survey Nov. 25th. 1957

on the S.S. "GULFQUEEN" (Number of Visits 4) Tons { Gross 20,466 Net 12,851

Sparrows Point Maryland By whom built Bethlehem Sparrows Pt. Shipyard, Inc. When built 1957

made at Quincy, Mass. By whom made Bethlehem Steel Co. When made 1957

made at Mountaintop, Pa. By whom made Forster Wheeler Corp. When made 1957

Net Horse Power 3000 Owners Black Steamships, Inc. Port belonging to Wilmington, Del.

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

Approval of plan June 8th. 1956 Working Pressure Shell 125 PSI Tubes 400 PSI Tested by Hydraulic Pressure to Shell 250 PSI Tubes 800 PSI Date of Test Nov. 5, 1957

Certificate Can each boiler be worked separately - Total Heating Surface of Boilers 460 SQ. Ft.

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

type of burners (oil) in each boiler - No. and description of safety valves on

boiler 2 4" Relief Valves Area of each set of valves per boiler { per rule - as fitted 25.12 Sq. Ins. Pressure to which they

adjusted 125 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 -

and Length 7' 7 1/4" X 16' 3 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

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

for 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 of

joint:—Plate - 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 to 65,000 lbs.

thickness of plates Ford 5/8" Radius or how stayed 48" Radius Size of manhole or handhole 12" X 16" Water Drums:—Number

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

flanged - If fusion welded, state name of welding firm - Have all the requirements of the rules

for 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 -

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

Shell Outside Tube Plate Diameter OD. 1" Thickness .072" Number 147 Steam Dome or Collector:—Description of

Shell Inside Tube Plate Inside diameter 2' 5 9/16" Thickness of shell plates I.S. Tube Plate 2 3/8" Range of tensile

strength 55,000 to 65,000 lbs. Description of longitudinal joint - If fusion welded, state name of welding

firm - Have all the requirements of the rules for Class I vessels been complied with - Diameter of rivet holes -

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

Boiler 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

welded - If fusion welded, state name of welding firm - Have all the requirements of the rules

for 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

of 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,

Manufacturer.

Is the approved plan of boiler forwarded herewith No. _____

During progress of work in shops - - - - -

During erection on board vessel - - - - -

Oct. 21th, 24th, Nov. 5th, 25th. Total No. of visits 4

Is boiler a duplicate of a previous case Yes. If so, state vessel's name and report No. "GULFKING" RPT No 11295

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This steam Generator is a two pass shell & tube

boiler with submerged tubes forming the heating surface, shell, heads tube plates, & Baffles- Steel, Tubes- Copper Nickel,

Steam Nest- Cast Steel, This unit was built in accordance with approved plans, but inspection at place of manufacture

was carried out by ABS & USGG. whose certificates have been examined & markings verified. The unit was opened out for

inspection & hydraulically tested prior to installation, the materials & workmanship are considered good.

Survey Fee £175.00 When applied for, 25/3/1958

Travelling Expenses (if any) £ : : When received, 19

Committee's Minute NEW YORK APR 30 1958 See Bal. 11353. F.E. Report

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation