

REPORT ON WATER TUBE BOILERS.

No. 44K. 52406

DRUMS

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Date of writing Report 10 Dec. 1952 When handed in at Local Office 10 Dec. 1952 Port of NEW YORK
No. in Survey held at CARTERET, N.J. Date, First Survey 2nd June '52 Last Survey 18 Nov. 1952
Reg. Bk. on the Bethlehem Steel Co., Quincy Hull No. 1631 S.S. ANDROS ISLAND
Built at By whom built When built
Engines made at By whom made When made
Boilers made at Carteret, N.J. By whom made Foster-Wheeler Corporation When made 1952
Nominal Horse Power Owners Orion Shipping & Trading Co. Inc. Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Corporation
Date of Approval of plan Number and Description or Type
of Boilers 4 Drums 2 Steam 2 Water Working Pressure 675 p.s.i. Tested by Hydraulic Pressure to 1013 p.s.i. Date of Test 9, 11 & 24 Sept
No. of Certificate B5001 No. 1&2 Can each boiler be worked separately. Total Heating Surface of Boilers
Is forced draught fitted Area of fire grate (coal) in each Boiler
No. and type of burners (oil) in each boiler No. and description of safety valves on
each boiler Area of each set of valves per boiler per rule Pressure to which they
are adjusted Are they fitted with easing gear In case of donkey boilers state whether steam from main boilers can enter
the donkey boiler Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler
Width and Length 13/16" wrapper 3 7/16" tube Number in each boiler One Inside diameter 48"
Thickness of plates 1 3/16" wrapper 3 7/16" tube Range of Tensile Strength 70000 p.s.i. Min. Are drum shell plates welded
or flanged welded If fusion welded, state name of welding firm Foster-Wheeler Corporation Have all the requirements of the rules
for Class I vessels been complied with Yes long. seams
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 2-028" Pitch of tube holes 1.875" & 4.5"
Percentage strength of shell in way of tubes 31-3 & 54-7 Steam Drum Heads or Ends: Range of tensile strength 70,000 p.s.i. Min.
Thickness of plates Man. 1 13/16" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number
in each boiler One Inside Diameter 30 1/2" Thickness of plates 2 5/16" Range of tensile strength 70,000 p.s.i. Min. Are drum shell plates
welded or flanged Welded If fusion welded, state name of welding firm Foster-Wheeler Corporation Have all the requirements of the rules
for Class I vessels been complied with Yes 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 1-278" Pitch of tube holes 1.875" & 4-5"
Percentage strength of drum shell in way of tubes 31.3 & 54.7 Water Drum Heads or Ends: Range of tensile strength 70,000 p.s.i. Min
Thickness of plates Plain 13/16": Man. 1 3/16" Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16"
Headers or Sections:—Number Material Thickness Tested by Hydraulic Pressure to
Tubes:—Diameter Thickness Number Steam Dome or Collector:—Description of
Joint to Shell Inside diameter Thickness of shell plates Range of tensile
strength 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
Pitch of rivets Thickness of straps Percentage strength of long. joint Plate Rivet
Crown 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
or 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. seams
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 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
Spare Gear. Has the spare gear required by the rules been supplied

FOSTER WHEELER CORP.

The foregoing is a correct description,
H. E. Leating Manufacturer.

Dates of Survey } During progress of } 2nd, 19th & 24th June
while } work in shops } 9th, 11th, 23rd & 24th September
building } During erection on } 2nd, 7th, 21st & 28th Oct.
board vessel } 18th Nov.
Is the approved plan of boiler forwarded herewith Total No. of visits 12

Is this boiler a duplicate of a previous case. Yes If so, state vessel's name and report No. Beth. Steel Quincy Hull 1630
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) tested in accordance with the approved Plans &
Requirements for Class 1 Fusion Welding and the workmanship and materials are good. When the drums
have been installed on board Bethlehem Steel Co. Quincy Hull No. 1631, according to the Rules and to
the satisfaction of the Society's Surveyor, the vessel will be eligible, in my opinion, to secure the
notation of 2 W.T.B. (Spt) 675 p.s.i.

Survey Fee £ : : When applied for, 19
Travelling Expenses (if any) £ - \$30.00 : : When received, 19

Committee's Minute
Assigned su attached 1st entry Rpt.

NEW YORK MAY 20 1953

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

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