

REPORT ON WATER TUBE BOILERS.

No. 52907

Received at London Office 29 JUN 1954

Writing Report Nov. 17, 1953 When handed in at Local Office 19 Port of NEW YORK

Survey held at Carteret, N. J. Date, First Survey April 29th Last Survey October 20th 1953

on the Bethlehem, Sparrows Point Hull No. 4522 S.S. JOHN P. G. (Number of Visits 16)

By whom built _____ When built _____

made at _____ By whom made _____ When made _____

made at Carteret, N. J. By whom made Foster Wheeler Corporation When made 1953

al Horse Power _____ Owners Orion Shipping & Trading Corp. Port belonging to _____

TER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel SHELLS: Bethlehem HEADS: Claymont

Approval of plan June 17, 1953

Boilers 4 Drums only, 2 Steam & 2 Water Working Pressure 675 Tested by Hydraulic Pressure to 1013 Date of Test August 26, 28, 29, 30, 31, Sept. 8, 15 & 28th

Certificate B-5148, NOS. 1 & 2 Can each boiler be worked separately. _____ Total Heating Surface of Boilers _____

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

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

control boiler _____ Area of each set of valves per boiler { per rule _____ as fitted _____ Pressure to which they _____

manufacturer _____ Are they fitted with easing gear _____ 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 _____ Steam Drums:—Number in each boiler One Inside diameter 48"

ness of plates Wrapper 1-3/16", Tube 3-7/16" Range of Tensile Strength 70,000 PSI MIN Are drum shell plates welded _____

nged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules _____

Class I vessels been complied with Yes Description of riveting:—Cir. seams _____ long. seams _____

ter of rivet holes in long. seams _____ Pitch of rivets _____ Thickness of straps _____ Percentage strength of _____

joint:—Plate _____ Rivet _____ Diameter of tube holes in drum 1.278" : 2.028" Pitch of tube holes 1.875" & 4.5"

stage strength of shell in way of tubes 31.3 & 54.7 Steam Drum Heads or Ends:—Range of tensile strength 70,000 PSI MIN

ness of plates Plain 1-3/16" Man 1-3/16" Radius or how stayed Elipsoidal Size of manhole or handhole 12" X 16" Water Drums:—Number _____

boiler One Inside Diameter 30-1/2" Thickness of plates 2-5/16" Range of tensile strength 70,000 PSI MIN drum shell plates _____

or flanged Welded If fusion welded, state name of welding firm Foster Wheeler Corp. Have all the requirements of the rules _____

Class I vessels been complied with Yes Description of riveting:—Cir. seams _____ long. seam _____

ter of rivet holes in long. seams _____ Pitch of rivets _____ Thickness of straps _____ Percentage strength of _____

stage strength of long. joint:—Plate _____ Rivet _____ Diameter of tube holes in drum 1.278" : 2.028" Pitch of tube holes 1.875" & 4.5"

stage strength of drum shell in way of tubes 31.3 & 54.7 Water Drum Heads or Ends:—Range of tensile strength 70,000 PSI MIN

ness of plates Plain 1-3/16" Man 1-3/16" Radius or how stayed Elipsoidal Size of manhole or handhole 12" X 16"

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

2 & _____ Diameter _____ Thickness _____ Number _____ Steam Dome or Collector:—Description of _____

o Shell _____ Inside diameter _____ Thickness of shell plates _____ Range of tensile _____

th _____ Description of longitudinal joint _____ If fusion welded, state name of welding _____

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

on or End Plates:—Range of tensile strength _____ Thickness _____ Plate _____ Rivet _____

PERHEATER. Drums or Headers:—Number in each boiler _____ Inside Diameter _____

ness _____ Material _____ Range of tensile strength _____ Are drum shell plates welded _____

nged _____ 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 _____

ter 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 _____

or how stayed _____ Size of manhole or handhole _____ Number, diameter, and thickness of tubes _____

by Hydraulic Pressure to _____ Date of Test _____ Is a safety valve fitted to each section of the superheater which _____

shut off from the boiler _____ No. and description of Safety Valves _____ Area of each set _____

ves _____ 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,
A. E. Hating Manufacturer.

es } During progress of } April 29 Aug. 7, 26 Is the approved plan of boiler forwarded herewith _____
urvey } work in shops - - } May 7, 12, 21, 25
ile } During erection on } June 22 Sept. 8, 15, 24, 28, 29 Total No. of visits 16
ing } board vessel - - - } July 3 Oct. 8, 20

boiler a duplicate of a previous case. _____ If so, state vessel's name and report No. _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These fusion welded drums have been made and

ed in accordance with the approved Plans & Requirements for Class 1 Fusion Welding and the work-

hip and materials are good. When the drums have been installed on board Bethlehem Steel Hull No. 4522

ording to the Rules and to the satisfaction of the Society's Surveyors, the vessel will be eligible,

urvey Fee £94.15 inclusive fee. _____ When applied for, _____ 19 _____ in my opinion, to receive the notation of _____

travelling Expenses (if any) \$40.00 _____ When received, _____ 19 _____ 2 WTB(SPT) 675 PSI

Committee's Minute NEW YORK JUN 9 1954

igned See minute on first entry Report attached

D. David Dick
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

008201-008210-0162