

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) Tons { Gross Net

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

ilers 4 Drums only. 2 Steam & 2 Water Working Pressure 675 Number and Description or Type 1013

Certificate B-5148, NOS. 1 & 2 Tested by Hydraulic Pressure to 1013 Date of Test August 26, Sept. 8, 15 & 28th

ed draught fitted. Total Heating Surface of Boilers

nd type of burners (oil) in each boiler. Area of fire grate (coal) 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 justed. 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

ass 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"

h boiler One Inside Diameter 30-1/2" Thickness of plates 2-5/16" Range of tensile strength 70,000 PSI MIN Water Drums: Number

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

ass 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

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

ss: 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

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

n or End Plates: Range of tensile strength Thickness Radius or how stayed

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

ass 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

h 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. Keating Manufacturer.

During progress of work in shops April 29 Aug. 7, 26 Is the approved plan of boiler forwarded herewith

During erection on board vessel May 7, 12, 21, 25 Sept. 8, 15, 24, 28, 29 Total No. of visits 16

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,

C:9415 Inclusive fee.

Survey Fee £ : When applied for, 19

Travelling Expenses (if any) \$40.00 : When received, 19

Committee's Minute NEW YORK JUN 9 1954

Signed See minute on first entry Report attached

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

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