

REPORT ON WATER TUBE BOILERS.

18 MAY 1949

Received at London Office

writing Report 18th March 1949 When handed in at Local Office 19th April 1949 Port of Baltimore, Maryland
 in Survey held at Baltimore, Maryland. Date, First Survey November 1948 Last Survey 10th, March 1949
 on the S.S. "WORLD PEACE" (Number of Visits 12) Tons { Gross 10892 Net 6539
 Sparrows Point, Maryland. By whom built Bethlehem Sparrows Point Shipyard Inc. When built 1948/49
 made at Quincey, Mass. By whom made Bethlehem Steel Co., Shipbuilding Division When made 1948
 made at Carteret, N.J. By whom made Foster - Wheeler Corp. When made 1948
 nominal Horse Power 1179 Owners World Tankers Corp. Port belonging to Monrovia

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Bethlehem Steel Co.,
 of Approval of plan 10th. November, 1948. A.B.S. Number and Description or Type

with nozzles 3254 & 3255 "D" Type Marine Design Pres- 490 Working Pressure 450 Tested by Hydraulic Pressure to 735 Date of Test 6th. Jan. 1949

plates, of Certificate AB.NY2038&2039 Can each boiler be worked separately. Yes Total Heating Surface of Boilers 7468 Includ. Water walls (see below)

ced draught fitted Yes Area of fire grate (coal) in each Boiler - No. and description of safety valves on

nd type of burners (oil) in each boiler 3 Hex Press "Todd" 50% of 11.82 per rule 5.91 sq.ins. Pressure to which they

boiler 2 - 2 1/2" Crosby Single Spring Loaded Highlift. Area of each set of valves per boiler as fitted 8.56 sq.ins.

adjusted 485 and 490 p.s.i. Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter to top

manufacure donkey boiler - Smallest distance between boilers or uptakes and bunkers or woodwork 8' 0" Height of boiler 22' 9 5/8" of Safety Valve

th and Length W = 11' 1 7/8" L = 17' 5 5/8" Steam Drums:—Number in each boiler One Inside diameter 42" Are drum shell plates welded

ckness of plate 1 13/32" Wrapper & Tube Plate Range of Tensile Strength 70,000 If fusion welded, state name of welding firm Foster - Wheeler Corp. Have all the requirements of the rules

anged Fusion Welded Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seams -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

Decemb joint:—Plate - Rivet - Diameter of tube holes in drum 1 9/32" 2 1/32" Pitch of tube holes 2 3/4", 2 1/2", 4 1/2" Steam Drum Heads or Ends:—Range of tensile strength 70,000

March entage strength of shell in way of tubes 48.7% & 54.8% Radius or how stayed Ellipsoidal Size of manhole or handhole 12" x 16" Water Drums:—Number

1948 ckness of plates 13/16" & 1 1/2" Inside Diameter 32 Thickness of plates 1 1/16" Range of tensile strength 70,000 Are drum shell plates

January ach boiler One Fusion Welded If fusion welded, state name of welding firm Foster - Wheeler Corp. Have all the requirements of the rules

ch 194 ded or flanged Class I vessels been complied with Yes Description of riveting:—Cir. seams - long. seam -

meter of rivet holes in long. seams - Pitch of rivets - Thickness of straps -

2, June entage strength of long. joint:—Plate - Rivet - Diameter of tube holes in drum 1 9/32" 2 1/32" Pitch of tube holes 2 3/4", 2 1/2", 4 1/2" Water Drum Heads or Ends:—Range of Tensile strength 70,000

entage strength of drum shell in way of tubes - Radius or how stayed Ellipsoidal Size of manhole or handhole 12 x 16

17 ckness of plates 5/8" and 15/16" Material - Thickness - Tested by Hydraulic Pressure to -

15 aders or Sections:—Number - Material - Thickness - Steam Dome or Collector:—Description of

C bes:—Diameter 1 1/4" and 2" Thickness 12ga. and 10ga. Number 614, 57 Inside diameter - Thickness of shell plates - Range of tensile

nt to Shell - Description of longitudinal joint - If fusion welded, state name of welding

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

n - Thickness of straps - Percentage strength of long. joint - Plate - Rivet -

own or End Plates:—Range of tensile strength - Thickness - Radius or how stayed -

UPERHEATER. Drums or Headers:—Number in each boiler Two Dimensions 6" x 7" x 11' 6 1/2" Long. Inside

ickness 1 1/8" Material D.H. Seamless Steel Pipe Range of tensile strength 70,000 Are drum shell plates welded

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

r Class I vessels been complied with - Description of riveting:—Cir. seams - long. seams -

iameter of rivet holes in long. seams - Pitch of rivets - Thickness of straps - Percentage strength of

surve ng. joint:—Plate - Rivet - Diameter of tube holes in drum - Pitch of tube holes - Percentage strength of

ne um shell in way of tubes - Drum Heads or Ends:—2 each header Thickness 1 1/8" Range of tensile strength 70,000

adius or how stayed Steel End Plates Size of manhole or handhole - Number, diameter, and thickness of elements 16 - 1 1/2" x 12 B.W.G.

thout tested by Hydraulic Pressure to 735 Date of Test 6th. January, 1949. Is a safety valve fitted to each section of the superheater which

n go n be shut off from the boiler Yes No. and description of Safety Valves One, 1 1/2" Area of each set

valves 1.7671 sq.in. Pressure to which they are adjusted 465 p.s.i. Is easing gear fitted Yes

pare Gear. Has the spare gear required by the rules been supplied Yes

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building } 15-22 November 1948. 3-17-21 February 1949 Is the approved plan of boiler forwarded herewith. Yes
 } 8-17 December 1948. 2-10 March 1949. Total No. of visits 12
 } 6-19-31 January 1949.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers F.W.3254 and 3255 were built to the requirements of the American Bureau of Shipping in 1948. They were hydraulically tested in place on board with all fittings and piping, and examined under working conditions. The material and workmanship throughout are good and appear worthy to be classed with this Society and receive the notation in the Register Book

Survey Fee Arranged... £150.00 : } When applied for, 20 April 1949
 Travelling Expenses (if any) £18.00 : } When received, - 19

NEW YORK APR 27 1949

C. H. Hanson
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned 2 WTB (SPT) 450 lbs.

Lloyd's Register
 Foundation