

## REPORT ON WATER TUBE BOILERS.

No. 8826

18 MAY 1949

Received at London Office

Port of Baltimore, Maryland

writing Report 18th March 1949 When handed in at Local Office 19th April 1949

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

at Sparrows Point, Maryland.

By whom built Bethlehem Sparrows Point Shipyard Inc. When built 1948/49

as made at Quincy, Mass.

By whom made Bethlehem Steel Co., Shipbuilding Division When made 1948

as made at Carteret, N.J.

By whom made Foster - Wheeler Corp. When made 1948

al Horse Power 1179

Owners World Tankers Corp. Port belonging to Monrovia

TER 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

3254 &amp; 3255 "D" Type Marine

Design Pres- 490

Working Pressure 450

Tested by Hydraulic Pressure to 735

Date of Test 6th, Jan. 1949

f Certificate AB.NY2038&amp;2039

Can each boiler be worked separately. Yes

Total Heating Surface of Boilers 7468 Includ. Water walls

ced draught fitted Yes

Area of fire grate (coal) in each Boiler -

(see below)

nd type of burners (oil) in each boiler 3 Hex Press "Todd"

No. and description of safety valves on

boiler 2 - 2 1/2" Crosby Single Spring Loaded

50% of 11.82

Area of each set of valves per boiler

per rule 5.91 sq. ins.

Pressure to which they

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

Smallest distance between boilers or uptakes and bunkers or woodwork 8'.0"

Height of boiler 22' 9 5/8" of

th and Length W = 11' 1 7/8" L = 17' 5 5/8"

Steam Drums:—Number in each boiler One

Inside diameter 42"

Safety Valve

kness of plates 1 13/32" Wrapper &amp; Tube Plate

Range of Tensile Strength 70,000

Are drum shell plates welded

anged Fusion 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 -

meter of rivet holes in long. seams -

Pitch of rivets -

Thickness of straps -

Percentage strength of

Decent joint:—Plate -

Rivet -

Diameter of tube holes in drum 1 9/32" 2 1/32"

Pitch of tube holes 2 3/4", 2 1/4", 4 1/2"

entage strength of shell in way of tubes 48.7% &amp; 54.8%

Steam Drum Heads or Ends:—Range of tensile strength 70,000

kness of plates 13/16" &amp; 1 1/2"

Radius or bow stayed Ellipsoidal

Size of manhole or handhole 12" x 16"

Water Drums:—Number

ach boiler One

Inside Diameter 32

Thickness of plates 1 1/16"

Range of tensile strength 70,000

Are drum shell plates

ched or flanged Fusion 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 -

meter of rivet holes in long. seams -

Pitch of rivets -

Thickness of straps -

Percentage strength of

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 1/4", 4 1/2"

entage strength of drum shell in way of tubes -

Water Drum Heads or Ends:—Range of Tensile strength 70,000

kness of plates 5/8" and 15/16"

Radius or bow stayed Ellipsoidal

Size of manhole or handhole 12 x 16

aders or Sections:—Number -

Material -

Thickness -

Tested by Hydraulic Pressure to -

bes:—Diameter 1 1/4" and 2"

Thickness 12ga. and 10ga.

Number 614, 57

Steam Dome or Collector:—Description of

nt to Shell -

Inside diameter -

Thickness of shell plates -

Range of tensile

ngth -

Description of longitudinal joint -

If fusion welded, state name of welding

n -

Have all the requirements of the rules for Class I vessels been complied with -

Diameter of rivet holes -

s.s.i. ch of rivets -

Thickness of straps -

Percentage strength of long. joint -

Plate -

Rivet -

own or End Plates:—Range of tensile strength -

Thickness -

Radius or bow stayed -

UPERHEATER. Drums or Headers:—Number in each boiler Two

Dimensions 6"x7"x11'6" Long.

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

g. joint:—Plate -

Rivet -

Diameter of tube holes in drum -

Pitch of tube holes -

Percentage strength of

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 bow stayed Steel End Plates

Size of manhole or handhole -

Number, diameter, and thickness of 16- 1 1/2" x 12 B.W.G.

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 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 15-22 November 1948. 3-17-21 February 1949

Is the approved plan of boiler forwarded herewith Yes

while building

During erection on

8-17 December 1948. 2-10 March 1949.

Total No. of visits 12

board vessel - - -

6-19-31 January 1949.

s 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, &amp;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

Committee's Minute

Assigned 2 W T B (SPT) 450 lbs.

NEW YORK APR 27 1949

Engine Surveyor to Lloyd's Register of Shipping.

Lloyd's Register

Foundation

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