

REPORT ON WATER TUBE BOILERS.

No. 1281

Received at London Office.

25 FEB 1949

When handed in at Local Office.

Port of CLEVELAND AND

Survey held at BARBERTON OHIO. AND

Date, First Survey JUNE 11-48

Last Survey JULY 30th

19 48

the S.S. OAKLEY L. ALEXANDER

(Number of Visits 6.)

Gross Tons

Net Tons

When built

By whom built

By whom made

When made

BARBERTON. OHIO.

By whom made BABCOCK AND WILCOX CO

When made 1948

Power

Owners POCAHONTAS STEAMSHIP CO.

Port belonging to

UBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel. WORTH STEEL CO AND CARNEGIE STEEL CO

al of plan. NEW YORK MAY 10th 1948.

Number and Description or Type

CROSS DRUM SECTIONAL HEADER

DESIGNED PRESSURE 525 LBS

Working Pressure

Tested by Hydraulic Pressure to 788 LBS

Date of Test 23 JUNE 48

Can each boiler be worked separately

Total Heating Surface of Boilers

ht fitted Area of fire grate (coal) in each Boiler

No. and description of safety valves on

burners (oil) in each boiler

Area of each set of valves per boiler

{ per rule
as fitted

Pressure to which they

Are they fitted with easing gear

In case of donkey boilers state whether steam from main boilers can enter

Smallest distance between boilers or uptakes and bunkers or woodwork

Height of boiler 20'-11"

gth 16'-7 1/4" + 16'-4"

Steam Drums:—Number in each boiler ONE

Inside diameter 47 3/4"

ates 1 5/8" + 1 5/8"

Range of Tensile Strength 70000 LBS

Are drum shell plates welded

ON WELDED If fusion welded, state name of welding firm BABCOCK & WILCOX CO

Have all the requirements of the rules

sels been complied with YES

Description of riveting:—Cir. seams

long. seams

et holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

late Rivet

Diameter of tube holes in drum 4 1/2"

Pitch of tube holes 7"

ngth of shell in way of tubes

Steam Drum Heads or Ends:—Range of tensile strength 70000 LBS

ates 1 1/8"

Radius or how stayed ELLIPSOIDAL

Size of manhole or handhole 12" x 16"

Water Drums:—Number

Inside Diameter

Thickness of plates

Range of tensile strength

Are drum shell plates

ged If fusion welded, state name of welding firm

Have all the requirements of the rules

sels been complied with

Description of riveting:—Cir. seams

long. seam

et holes in long. seams

Pitch of rivets

Thickness of straps

ngth of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

ngth of drum shell in way of tubes

Water Drum Heads or Ends:—Range of Tensile strength

ates

Radius or how stayed

Size of manhole or handhole

ctions:—Number 21 SECTIONS

Material S.D. STEEL

Thickness 6 1/8" x 5 3/8" x 1 1/2"

Tested by Hydraulic Pressure to 788 LBS.

eter 4, 3 1/4, 3 1/4, 2 + 1 1/4

Thickness 203, 25, 203, 134 + 095

Number 42, 4, 26, 126 + 1364

Steam Dome or Collector:—Description of

Inside diameter

Thickness of shell plates

Range of tensile

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

Thickness of straps

Percentage strength of long. joint

Plate

Rivet

d Plates:—Range of tensile strength

Thickness

Radius or how stayed

EATER. Drums or Headers:—Number in each boiler TWO

Inside Diameter 5 1/4" SQUARE

Material O.H. STEEL

Range of tensile strength

Are drum shell plates welded

If fusion welded, state name of welding firm SEAMLESS STEEL TUBING

Have all the requirements of the rules

sels been complied with

Description of riveting:—Cir. seams

long. seams

et holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

Plate Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of

way of tubes

Drum Heads or Ends:—

Thickness

Range of tensile strength

stayed

Size of manhole or handhole 4 9/16" x 5 1/2"

Number, diameter, and thickness of tubes 231, 1 1/4" + .120"

aulic Pressure to 788 LBS

Date of Test JUNE 11th 1948

Is a safety valve fitted to each section of the superheater which

from the boiler

No. and description of Safety Valves

Area of each set

Pressure to which they are adjusted

Is easing gear fitted

tr. Has the spare gear required by the rules been supplied

The foregoing is a correct description,

REMARKS N° M.B. 4345-1 + 2.

Manufacturer.

uring progress of JUNE 11, 15, 23, 25; JULY 1, 30 - 1948

work in shops - -

uring erection on

board vessel - -

Is the approved plan of boiler forwarded herewith YES Plan

forwarded to London 12th May, 1948

Total No. of visits 6 +

duplicate of a previous case

If so, state vessel's name and report No.

REMARKS (State quality of workmanship, opinions as to class, &c.) The steam drums, sectional headers, mud drums, etc., for these boilers, were built under Special Survey + to approved plans, joints, X-ray examinations + hydraulic tests were found satisfactory. When installed in accordance with the Rule requirements before satisfaction, the vessel will be eligible in my opinion to receive the notation of 2WTB 525 LBS (SPT).

£ 350.

When applied for, 2/10/1949

Expenses (if any) £ 39.

When received, 19

e's Minute

NEW YORK FEB 9 1949

SSS

Engineer Surveyor to Lloyd's Register of Shipping.

See attached Report (N.Y.C. RPT. NO. 6241)

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