

REPORT ON WATER TUBE BOILERS.

No. 2018

URG FIRST ENTRY

No. 26224

Oct. 27, 1958

When handed in at Local Office

Received at London Office

Port of Cleveland, Ohio

Survey held at Barberton, Ohio

Date, First Survey March 5th

Last Survey July 21st, 1958

(Number of Visits 16)

on the TWO (2) MAIN W. T. BOILERS - Hull No. 202

Uddevalla, Sweden

By whom built Uddevallaravet A/B

When built

le at

By whom made

When made

le at Barberton, Ohio

By whom made

Babcock & Wilcox Co

When made 1958

Power

Owners

Standard Oil of California

Port belonging to

TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY—Manufacturers of Steel Bethlehem Steel Co

Approval of plan May 27; Aug 21 and December 29, 1957

Number and Description or Type

Two (2) - Two Drum Type

Design

Pressure 705 psi

Tested by Hydraulic Pressure to 1108 psi

Date of Test Various

icate

Can each boiler be worked separately

Total Heating Surface of Boilers See over

ught fitted

Area of fire-grate (coal) in each Boiler

of burners (oil) in each boiler

No. and description of safety valves on

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

oiler

Smallest distance between boilers or uptakes and bunkers or woodwork

Height of boiler

length

Steam Drums: Number in each boiler

One

Inside diameter See over

plates

See over

Range of Tensile Strength

70000 psi min

Are drum shell plates welded

Welded

If fusion welded, state name of welding firm

Babcock & Wilcox Co

Have all the requirements of the rules

vessels been complied with

Yes

Description of riveting: Cir. seams

long. seams

ivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

Plate

Rivet

Diameter of tube holes in drum

1.275"

Pitch of tube holes

1.75"

length of shell in way of tubes

27.14%

Steam Drum Heads or Ends: Range of tensile strength 70000 psi min

plates

See over

Radius or how stayed

Ellipsoidal

Size of manhole or handhole

12" x 16"

Water Drums: Number

One

Inside Diameter

See over

Thickness of plates

See over

Range of tensile strength 70000 psi

Are drum shell plates

aged

Welded

If fusion welded, state name of welding firm

Babcock & Wilcox Co

Have all the requirements of the rules

vessels been complied with

Yes

Description of riveting: Cir. seams

long. seam

ivet holes in long. seams

Pitch of rivets

Thickness of straps

Percentage strength of

length of long. joint: Plate

Rivet

Diameter of tube holes in drum

1.275"

Pitch of tube holes

1.75"

length of drum shell in way of tubes

27.14%

Water Drum Heads or Ends: Range of Tensile strength 70000 psi min

plates

See over

Radius or how stayed

Ellipsoidal

Size of manhole or handhole

12" x 16"

Sections: Number

See over

Material OH Steel

Thickness

1"

Tested by Hydraulic Pressure to 1108 psi

meter

See over

Thickness

Number

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

Three

Inside Diameter 5 1/4 7" square

1"

Material

Steel

Range of tensile strength

60000 psi min

Are drum shell plates welded

eamless pipe

If fusion welded, state name of welding firm

Have all the requirements of the rules

els been complied with

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

1.275"

Pitch of tube holes

1.75"

Percentage strength of

ay of tubes

27.14%

Drum Heads or Ends:

Thickness

Range of tensile strength

ayed

Size of manhole or handhole

Number, diameter, and thickness of tubes See over

ulic Pressure to 1108 psi

Date of Test

Various

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

Has the spare gear required by the rules been supplied

The foregoing is a correct description,

Manufacturer.

ng progress of March 5; April 1, 18, 23, 25; May 19, 21; June 2,

ork in shops - 6, 9, 16, 18, 23, 27; July 17, 21, 1958

ng erection on

ard vessel - - -

Is the approved plan of boiler forwarded herewith No

Total No. of visits 16

plicate of a previous case

No

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

REMARKS (State quality of workmanship, opinions as to class, &c.)

These boiler components have been built under survey

ved plans. The workmanship is of good quality and in the opinion of the undersigned, they are suitable for

aboard a classed vessel for a design pressure of 705 psi. See attached Report 10.

\$960.00

When applied for, 10/31/ 1958

penses (if any) £

: 96.00

When received,

19

NEW YORK

NOV 12 1958

Minute

Transmit to London.

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

Engineer Surveyor to Lloyd's Register of Shipping.

011671-011677 0096

Lloyd's Register Foundation

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Main Boile

HEATING SURFACE (per boiler):-

Boiler	8065 sq. ft.
Waterwalls	655 sq. ft.
Superheater	1185 sq. ft.
TOTAL	9905 sq. ft.

DRUM DATA

Inside radius of wrapper sheet
Inside radius of tube sheet
Thickness of wrapper sheet
Thickness of tube sheet
Thickness of blankend
Thickness of manhead

Steam Drum

23-11/16" ✓
22-15/64" ✓
1-5/32" ✓
4-1/16" ✓
1-5/32" ✓
1-27/32" ✓

Water Drum

15" ✓
14-1/16" ✓
25/32" ✓
2-21/32" ✓
25/32" ✓
1-3/16" ✓

HEADERS (per boiler)

- 1 Side wall header
- 2 Rear wall headers
- 2 Economizer headers
- 3 Superheater headers

TUBES (per boiler)

No.	Diameter	Thickness
1440	1-1/4"	.105"
240	1-1/2"	.203" (economizer)
188	2"	.120"
4	3-1/4"	.375"
3	4-1/2"	.340"
48	1-1/4"	.135" (superheater)
116	1-1/4"	.124" (superheater)

Results of weld tests are attached to this report.

Copies of this report sent to London, New York and Gothenburg.



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