

REPORT ON BOILERS.

No. 2550

Received at London Office

of writing Report

191

When handed in at Local Office

191

Port of Kobe

Survey held at
Book.

Osaka

Date, First Survey

7th Nov. 1918

Last Survey

23rd June 1919

(Number of Visits 12)

Gross 4440

Net 4823

on the Twin Screw Steel Steamer "Amazon Maru"

ter N. Kobayashi

Built at

Osaka

By whom built

The Osaka Iron Works. Ltd.

When built

1919

ines made at

Osaka

By whom made

The Osaka Iron Works. Ltd.

When made

1919

ers made at

do

By whom made

do

When made

do

istered Horse Power

655

Owners

The Osaka Shosen Kaisha

Port belonging to

Osaka

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Paul & Co. Ltd.

Scottish Tube Co.

John Marshall & Co.

ter for record

S.

Total Heating Surface of Boilers

13910

Is forced draft fitted

yes

No. and Description of

Boilers One S. & Co. Anne. Blr.

Working Pressure

200 lb.

Tested by hydraulic pressure to

400 lb.

Date of test

23rd Dec '18

of Certificate

400 lbs

Can each boiler be worked separately

yes

Area of fire grate in each boiler

39.1

No. and Description of

ty valves to each boiler

Two Spring loaded

Area of each valve

22" dia.

Pressure to which they are adjusted

205 lb.

they fitted with easing gear

yes

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

✓

allest distance between boilers or uptakes and bunkers or woodwork

15"

Mean dia. of boilers

12' 0"

Length

11' 6"

aterial of shell plates

Steel

Thickness

1 1/2"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

No

scrip. of riveting: cir. seams

Double riv.

long. seams

Double riv. straps

Diameter of rivet holes in long. seams

1 5/16"

Pitch of rivets

8 3/4" + 1 3/8"

width of butt straps

1' 4 1/2" x 1 1/2"

Per centages of strength of longitudinal joint

91.8

Working pressure of shell by

85.0

es 2 1/2 lbs.

Size of manhole in shell

12" x 16"

Size of compensating ring

2' 10" x 3' 2" x 1 1/2"

No. and Description of Furnaces in each

2

iller Two Deighton

Material

Steel

Outside diameter

3' 11 1/2"

Length of plain part

top

Thickness of plates

crown

5/8"

escription of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

212 lb.

Combustion chamber

212 lb.

Pitch of stays to ditto

Sides 8 3/4" x 8 3/4"

ates: Material

Steel

Thickness: Sides

1 1/16"

Back 1 1/16"

Top 1 1/16"

Bottom 7/8"

Pitch of stays to ditto

Sides 8 3/4" x 8 3/4"

Back 9" x 8"

op 9" x 8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

214 lb.

Material of stays

Steel

Area at

allest part

1' 4 9/16"

Area supported by each stay

7 1/4" x 1 1/4"

Working pressure by rules

214 lb.

End plates in steam space: Material

Steel

Thickness

1 1/2"

itch of stays

1 7/8" x 1 1/4"

How are stays secured

Double nuts

Working pressure by rules

214 lb.

Material of stays

Steel

Area at smallest part

6.33

ea supported by each stay

1 7/8" x 1 1/4"

Working pressure by rules

220 lb.

Material of Front plates at bottom

Steel

Thickness

1"

Material of

3 1/4"

ower back plate

Steel

Thickness

1"

Greatest pitch of stays

1 1/2" dia. sp.

Working pressure of plate by rules

200 lb.

Diameter of tubes

3 1/4"

itch of tubes

1 1/2" x 1 3/8"

Material of tube plates

Steel

Thickness: Front

Back 7/8"

Mean pitch of stays

1 1/2"

Pitch across wide

1 1/2"

ter spaces

Double 7/8"

Working pressures by rules

206 lb.

Girders to Chamber tops: Material

Steel

Depth and thickness of

3 @ 8"

Number and pitch of Stays in each

3 @ 8"

der at centre

10 1/2" x 7/8"

(2) Length as per rule

3 1/2"

Distance apart

9"

% of strength of joint

232 lb.

Steam dome: description of joint to shell

-

orking pressure by rules

232 lb.

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

15"

Working pressure of shell by rules

Crown plates

Thickness

itch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

15"

Working pressure of shell by rules

Crown plates

Thickness

How stayed

15"

PERHEATER. Type

Water

Date of Approval of Plan

Tested by Hydraulic Pressure to

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

ate of Test

Pressure to which each is adjusted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

iameter of Safety Valve

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

ERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

When made

Where fixed

Working pressure

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

200 lb.

ade at

By whom made

When made

Where fixed

Working pressure

200 lb.

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

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

This boiler has been built under Special Survey in accordance with the requirements of the Rules & the materials & workmanship are good. The vessel is eligible in my opinion for the record S.E. Ave Als 200 lbs

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee ..	Included in	When applied for.
Special ..	Making Spec19.....
Donkey Boiler Fee ..	Survey fee:	When received,
Travelling Expenses (if any) £	:19.....

Committee's Minute

Assigned

TUE SEP 9 - 1975

A. L. Jones Y. Jo. assist.
Engineer Surveyor to Lloyd's Register of Shipping



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Lloyd's Register
Foundation

Rpt. 1

Port

No. in
Reg. Bo

Owners

Yard

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Position

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