

REPORT ON BOILERS.

No. 2196.

Received at London Office

TUE 8-JUL. 1919

Form of writing Report

101

When handed in at Local Office

101

Port of Kobe

No. in Survey held at

Kobe

Date, First Survey

2nd Dec. 1918

Last Survey

15th March 1919

Log. Book.

on the Steel Single screw Steamer "San Francisco Maru"

(Number of Visits 10)

Gross 5858

Tons 3863

Net 4259

Master

Built at

Kobe

By whom built

The Kawasaki Dockyard Co. Ltd.

When built

1919

Engines made at

Kobe

By whom made

The Kawasaki Dockyard Co. Ltd.

When made

1919

Boilers made at

do

By whom made

do

When made

1919

Registered Horse Power

440

Owners

Kawasaki Kisen Kaisha

Kabushiki Kaisha

Port belonging to

Kobe

ULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Worth Bros. & Amer. Spirit Tube Co.

Letter for record

S

Total Heating Surface of Boilers

1132⁰

Is forced draft fitted

yes

No. and Description of

Boilers One S. E. Aux. Boiler

Working Pressure 200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test 8/1/19

of Certificate

400 LBS

A.L.J. R. 8/1/19

Can each boiler be worked separately

yes

Area of fire grate in each boiler

33⁰

No. and Description of

Safety valves to each boiler

Two Direct Spring

Area of each valve

5.93⁰

Pressure to which they are adjusted

205 lbs.

Are they fitted with easing gear

yes

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

✓

Smallest distance between boilers or uptakes and bunkers or woodwork

18"

Mean dia. of boilers

10' : 10"

Length 10' : 6"

Material of shell plates

Steel

Thickness

1"

Range of tensile strength

28 to 32^l tons

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Doub. rivet

long. seams

Doub. straps

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

6 3/4" + 3 3/4"

Up of plates or width of butt straps

1 1/2" x 1"

Per centages of strength of longitudinal joint

95.2

Working pressure of shell by

84.6

Pressure

200 lbs.

Size of manhole in shell

12" x 16"

Size of compensating ring (flange)

1"

No. and Description of Furnaces in each

Boiler Two Morrison

Material Steel

Outside diameter

40 1/4"

Length of plain part

top

✓

Thickness of plates

crown

9 1/16"

bottom

Description of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

236 lbs.

Combustion chamber

Plates: Material

Steel

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

3/4"

Pitch of stays to ditto: Sides

7 x 8 1/2"

Back

7 1/2 x 8 1/2"

Area of

7" x 8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

204 lbs.

Material of stays

Steel

Area at

Smallest part

1.78"

Area supported by each stay

66"

Working pressure by rules

242 lbs.

End plates in steam space: Material

Steel

Thickness

7/8"

Length of stays

15 1/2 x 14 1/2"

How are stays secured

Doub. nuts

Working pressure by rules

202 lbs.

Material of stays

Steel

Area at smallest part

5.24

Area supported by each stay

15 1/2 x 14 1/2"

Working pressure by rules

238 lbs.

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

Front back plate

Steel

Thickness

3/4"

Greatest pitch of stays

13 1/2" at Wide

Working pressure of plate by rules

200 lbs.

Diameter of tubes

3 1/4"

Length of tubes

4 3/4" mean

Material of tube plates

Steel

Thickness: Front

7/8"

Back

3/4"

Mean pitch of stays

8 3/4"

Pitch across wide

Clear spaces

13 3/4" double 5/8"

Working pressures by rules

200 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

Boiler at centre

8 x 13/16 (two)

Length as per rule

27"

Distance apart

8"

Number and pitch of Stays in each

3 @ 7"

Working pressure by rules

256 lbs.

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Number of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

of Test

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

Number of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Boiler at

By whom made

When made

Where fixed

Working pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Fire grate area

Description of safety valves

Number of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

Enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

Strength

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Method of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Number of stays

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Thickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Radius of do.

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.,

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

This Auxiliary Main Boiler has been made + fitted under special survey in accordance with the requirements of the Rules + the materials + workmanship are good.

This vessel is eligible in our opinion for the record.
Aux. S. E. B. 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.)

Fees included in Machy. S. S. fees

The amount of Entry Fee	.. £	:	:	When applied for,
Special £	:	:19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £		:	:19.....

FRI. 11 JUL. 1919

Committee's Minute

Assigned.

A. L. Jones & Aulatt

Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation