

REPORT ON BOILERS.

No. 2519

Received at London Office

TUE. 5-AUG. 1919

to of writing Report

191

When handed in at Local Office

191

Port of Kobe

No. in Survey held at

Kobe

Date, First Survey

23rd Dec. 1918

Last Survey

17th April

1919

Reg. Book.

on the Steel Single Screw Steamer

"Liverpool Maru"

(Number of Visits 15)

Gross

Tons

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

Owners

The Kawasaki Kisen Kaisha

Port belonging to

Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—

Manufacturers of Steel

Carnegie, Mann Wood, Special Tube

Letter for record

S.

Total Heating Surface of Boilers

1132⁰

Is forced draft fitted

yes

No. and Description of

Boilers One S. & Aux. Boiler

Working Pressure 200 lbs.

Tested by hydraulic pressure to 400 lbs.

Date of test

24th Feb. 1919

No. of Certificate

400

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 tons

Are the shell plates welded or flanged

No.

Description of riveting: cir. seams

Double riv. long. seams

Double riv. long. seams

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

6 3/4" + 3 3/4"

Gap 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

Rules

200 lbs.

Size of manhole in shell

12" x 16"

Size of compensating ring

(1 1/4" + flange)

1"

No. and Description of Furnaces in each

Boiler Two "Maison"

Material Steel

Outside diameter

40 1/2"

Length of plain part

top

bottom

Thickness of plates

9 1/16"

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

4 x 8 1/2"

Back

Area at

smallest part

1.48⁰

Area supported by each stay

66⁰

Working pressure by rules

242 lbs.

End plates in steam space: Material

Steel

Thickness

7/8"

Pitch of stays

15 1/2" x 14 1/2"

How are stays secured

Double nuts

Working pressure by rules

202 lbs.

Material of stays

Steel

Area at smallest part

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

Lower 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 1/2"

Pitch 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

Water spaces

13 3/4" double

Working pressures by rules

200 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girders

at centre

8 x 13/16 (two)

Length as per rule

27"

Distance apart

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

Pitch 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

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

VERTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

Made 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

No. 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

Gap of plating

Per centage of strength of joint

Rivets

Plates

Working pressure of shell by rules

Thickness of shell crown plates

Radius of do.

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

Plates

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.,

Manufacturer.

Per.

J. Otakura

Secretary.

23rd Dec. 1918 9.15.20.25.29.30 Jan.

1.7.15.17.24 Feb. 8.12.17 April 1919

Total No. of visits

15.

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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007620 - 007625 - 0149

RE

Port of

No. in on
Reg. Book Bu

Owners *Sh*

Yard No. *44*

DESCRIPTION

*Two se
automatic
8" dia.*

Capacity of Dyn

Where is Dyna

Position of Mai

Positions of au

deck, 1

each ho

If cut outs are

circuits

If vessel is wir

Are the cut outs

Are all cut outs

are perman

Are all switches

Total number o

A

B

C

D

E

2 Mast

2

7

If are lights, w

Where are the

DESCRIPTION

Main cable carr

Branch "

Branch cables ca

Branch cables ca

Leads to lamps

Cargo light cable

DESCRIPTION

Conduc

tape

by steel

Joints in cables,

protected

Are all the join

made in bu

Are there any j

How are the ca

addition

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 and the materials and Workmanship are good.

This vessel is eligible in our opinion for the record aux. S. & 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.)

The amount of Entry Fee	.. <i>included</i> :	When applied for,
Special £ <i>4.12.2 S.S. 4</i>	19.....
Donkey Boiler Fee £ :	When received,
Travelling Expenses (if any)	£ :	19.....

Committee's Minute

FRI. 8-AUG. 1919

Assigned

*See Minute on
attached report*

N. L. Jones & Allatt.

Engineer Surveyor to Lloyd's Register of Shipping.



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Lloyd's Register
Foundation