

462 Karachi Maru

t. 5.

REPORT ON BOILERS.

No. 2599
TUE. 14 OCT. 1919

Port of Kobe

Recorded at London Office

No. in Survey held at

Kobe

Date, first Survey

Feb. 18th

Last Survey

Aug 18th 1919

Book.

(Number of Visits 15)

on the Steel Single Screw Steamer "Karachi Maru"

Tons } Gross 5860
 } Net 4260

Builder

Y. SAITO.

Built at

Kobe

By whom built

Kawasaki Dockyard Co. Ltd.

When built

1919

Motors made at

Kobe

By whom made

The Kawasaki Dockyard Co. Ltd.

when made

1919.

Motors made at

do

By whom made

do

when made

1919

Registered Horse Power

NHP 440

Owners

The Kawasaki Kisen Kaisha

Port belonging to

Kobe

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel

Illinois Steel, Carnegie Steel, & Amer Special Pipe Works (Furnaces)

Letter for record

S.

Total Heating Surface of Boilers

1132⁰

Is forced draft fitted

yes

No. and Description of

Boilers

One 3. 6. Aux Boiler

Working Pressure

200 lb.

Tested by hydraulic pressure to

400 lb.

Date of test

5-7-19

Area of Certificate

LLOYD'S TEST 400 LBS

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 lb.

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 rivet long seams

Double rivet long seams

Double rivet

Diameter of rivet holes in long. seams

1/16"

Pitch of rivets

6 29/32 + 3 29/32

Width of plates or width of butt straps

1 1/2" x 1"

Percentage of strength of longitudinal joint

95.2

Working pressure of shell by

81.6

Working pressure

200 lb.

Size of manhole in shell

12" x 16"

Size of compensating ring

(1 1/2" + flange) 1"

No. and Description of Furnaces in each

Boiler

Two "Morison"

Material

Steel

Outside diameter

40 1/4"

Length of plain part

9 1/16"

Description of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

236 lb.

Combustion chamber

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 13/16 x 8 1/2

7" x 8" If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

201 lb.

Material of stays

Steel

Area

at

largest part

Smallest part

1.78"

Area supported by each stay

66"

Working pressure by rules

212 lb.

End plates in steam space: Material

Steel

Thickness

7/8"

Pitch of stays

15 1/4 x 14 1/2

How are stays secured

Double nuts

Working pressure by rules

202 lb.

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 lb.

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 lb.

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

Working pressures by rules

200 lb.

Girders to Chamber tops: Material

Steel

Depth and thickness of

Girders at centre

8 x 13/16 (two)

Length as per rule

24"

Distance apart

8"

Number and pitch of Stays in each

3 @ 4"

Working pressure by rules

256 lb.

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

✓

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

holes

Material of flue plates

Thickness

Are they stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

Working pressure of end plates

256 lb.

Area of safety valves to superheater

Are they fitted with easing gear

✓

VERTICAL DONKEY BOILER

No.

Description

Manufacturers of steel

Made at

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

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

Percentage of plating

Percentage of strength of joint

Rivets

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

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Kawasaki Dockyard Co., Ltd.

Manufacturer.

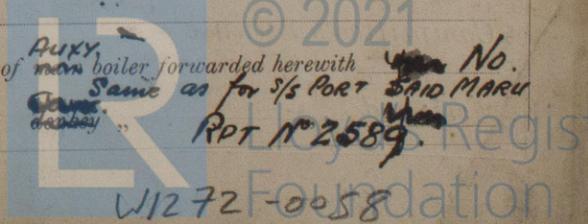
J. Ota Kawa

Secretary 1919 Feb. 18, 28; Mar 3, 10; May 26; June 12, 18, 27; July 5.

Dates Survey while building July 25; Aug 1, 5, 6, 11, 18.

Total No. of visits 15.

Is the approved plan of auxiliary boiler forwarded herewith



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

This Boiler has been made + fitted under Special Survey. The Rules have been complied with and the materials and workmanship found good.

The vessel is eligible, it is submitted, for the Record one 5. to. aux. Blv. 200 lbs.

AW

Certificate (if required) to be sent to

The amount of Entry Fee...	Included in Machinery	When applied for.
Special ...	£1 of Entry Fees.	19
Donkey Boiler Fee ...	£	When received,
Travelling Expenses (if any) £		16 th Aug 1919

Alexander Watt.
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. 21. OCT. 1919

Assigned



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Lloyd's Register Foundation

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