

## REPORT ON BOILERS. No. 2632

Port of Kobe

Received at London Office

19

Survey held at

Kobe

Date, first Survey

Febry. 18<sup>th</sup>

Last Survey

Oct. 14<sup>th</sup> 1919(Number of Visits 17)

on the

Steel Single Screw Steamer "Scotland Maru"

Tons

Gross 5863Net 4263

K. MURAKAMI.

Built at

Kobe

By whom built

Kawasaki Dockyard Co. Ltd.

When built

1919

es made at

Kobe

By whom made

Kawasaki Dockyard Co. Ltd.

when made

1919

rs made at

do

By whom made

do

when made

1919Horse Power N.H.P. 440

Owners

Kawasaki Kisen Kaisha

Port belonging to

Kobe

LITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Illinois Steel Co. Carnegie Steel Co. & Amer Spiral Pipe Wks.

er for record

S

Total Heating Surface of Boilers

1132<sup>sq</sup>

Is forced draft fitted

yes

No. and Description of

ers

One 5 to auxy. Boiler

Working Pressure

200 lbs.

Tested by hydraulic pressure to

400 lbs.

Date of test

12-7-19.

of Certificate

LLOYD'S TEST 400 LBS 12-7-19 200 LBS WP

Can each boiler be worked separately

yes

Area of fire grate in each boiler

No. and Description of

y valves to each boiler

Two Direct Spring

Area of each valve

5.93<sup>sq</sup>

Pressure to which they are adjusted

205 lbs.

they fitted with easing gear

yes

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

✓

Least 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

rip. of riveting: cir. seams

Doub. riv. long. seams

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

6 29/32 + 3 29/64

of plates or width of butt straps

14 1/2" x 1"

Per centages of strength of longitudinal joint

rivets 95.2

Working pressure of shell by

plate 84.6

Size of manhole in shell

12" x 16"

Size of compensating ring (1 1/4" + flange)

1"

No. and Description of Furnaces in each

er Two Morrison

Material Steel

Outside diameter

40 1/4"

Length of plain part

✓

Thickness of plates

crown 9/16"bottom 9/16"

ription of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

236 lbs.

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 1/2Back 7 13/16 x 8 1/8

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

nuts

Working pressure by rules

204 lbs.

Material of stays

Steel

Area

Diameter at

Least 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"

ch of stays

15 1/4 x 14 1/2

How are stays secured

Doub. nuts

Working pressure by rules

202 lbs.

Material of stays

Steel

Area

Diameter at5.27

a supported by each stay

15 1/4 x 14 1/2

Working pressure by rules

238 lbs.

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

lbs.

er 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"

ch 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

er spaces

13 3/4 doubled 5/8

Working pressures by rules

200 lbs.

Girders to Chamber tops: Material

Steel

Depth and thickness of

3 @ 7"

der at centre

8 x 13/16 (two)

Length as per rule

27"

Distance apart

8"

Number and pitch of Stays in each

3 @ 7"

orking pressure by rules

256 lbs.

Superheater or Steam chest: how connected to boiler

✓

Can the superheater be shut off and the boiler worked

✓

arately

Diameter

Length

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet

es

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

orking pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

VERTICAL DONKEY BOILER

No.

Description

Manufacturers of steel

ade at

By whom made

When made

Where fixed

orking pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

o. of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

ter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

length

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

up of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

adius of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

hickness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

lates

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

Kawasaki Dockyard Co., Ltd.

The foregoing is a correct description.

Per

J. O. Kane

Manufacturer.

1919

During progress of

work in shops

During erection on

board vessel

Total No. of visits

14

Is the approved plan of boiler forwarded herewith

No

Boiler plan

same as for S/S. Cape Town Maru

Rpt. No. 2622

S/S PORT SAID MARU

RPT. No. 2589

W536-0012



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

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

The vessel is eligible, it is submitted for the record One S.E. Auxiliary Boiler 200 lbs. *AW*

Port of *K*

No. in Reg. Book on t Bu

Owners *Ka*

Yard No. *4*

DESCRIPTION

*Two self automatic 8" dia.*

Capacity of Dyn

Where is Dyna

Position of Ma

Positions of a

*shelter having*

If fuses are f

circuits

If vessel is wi

Are the fuses

Are all fuses

are perma

Are all switch

Total number

A *1*

B

C

D

E

*2* Mas

*2*

*7*

If are lights,

Where are th

DESCRIPTION

Main cable ca

Branch "

Branch cables

" "

Branch cables

" "

Leads to lamp

Cargo light ca

DESCRIPTION

*Cona*

*ed run*

*and she*

Joints in cab

*protic*

Are all the jo

position

Are there an

How are the

*any a*

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 in</i>	When applied for.
Special ...	<i>Machinery</i>	19
Donkey Boiler Fee	<i>1st Entry Fees</i>	When received
Travelling Expenses (if any) £		<i>Oct 20<sup>th</sup> 1919.</i>

Committee's Minute

TUE 23 DEC. 1919

Assigned

*Alexander Watt.*

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



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