

REPORT ON BOILERS.

No. 2514

Date of writing Report

101

When handed in at Local Office

101

Port of Kobe

Received at London Office

TUE 8-III 1919

No. in Survey held at
Reg. Book.

Kobe

Date, First Survey

7 Dec. 1918

Last Survey

15 Apr. 1919

1919

on the Steel Single Screw Steamer "New York Maru"

(Number of Visits)

Tons

Gross

Net

5858

Master

W. Motoni

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

Illinois Steel

Worth Bros.

Man. Works

(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 lb.

Tested by hydraulic pressure to 400 lb.

Date of test

21.2.19

No. of Certificate

400 LAS

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.

Descrip. of riveting: cir. seams

Doub. riv.

long. seams

Double rivet

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

2 1/2"

2 1/2"

1. Lap of plates or width of butt straps

1 1/2" x 1"

Per centages of strength of longitudinal joint

rivets

95.2

Working pressure of shell by

plate

84.6

No. and Description of Furnaces in each

boiler

Two "Morison"

Material

Steel

Outside diameter

40 1/2"

Length of plain part

top

Thickness of plates

crown

9/16"

bottom

9/16"

Description of longitudinal joint

Weld

No. of strengthening rings

✓

Working pressure of furnace by the rules

236 lb.

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"

Top 7 x 8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

204 lb.

Material of stays

Steel

Area at

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 1/2 x 14 1/2"

How are stays secured

Doub. nuts

Working pressure by rules

202 lb.

Material of stays

Steel

Area at smallest part

5.27

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"

Working pressure of plate by rules

200 lb.

Diameter of tubes

3 1/4"

Pitch across wide

water spaces

13 1/2" double

5/8"

Working pressures by rules

200 lb.

Girders to Chamber tops: Material

Steel

Depth and thickness of

girder 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.

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

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

Lap 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. Makatauna

Secretary.

Dates of Survey while building

During progress of work in shops --

During erection on board vessel --

Total No. of visits

7.17.19.20. Dec 1918 9.14.18.30 Jan 4.12.31 Feb.

4.9.14.15 Apr. 1919

15

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

Lloyd's Register Foundation

W787-0034

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. to B. 200 lbs.

Rpt. 13.

RE

Port of

No. in on the
Reg. Book Built

Owners Kawa

Yard No. 439

DESCRIPTION OF

Two sets
automatic
8" dia, 6"

Capacity of Dynamo

Where is Dynamo

Position of Main S

Positions of auxili

deck, 1 on

switch on

If cut outs are fitted

circuits 1

If vessel is wired

Are the cut outs of

Are all cut outs fitted

are permanent

Are all switches and

Total number of lig

A 11

B 13

C 32

D 2

E

2 Mast head

2 Side

7

If are lights, what

Where are the sw

DESCRIPTION OF

Main cable carrying

Branch Cables carry

Branch cables carry

Branch cables carry

Branch cables carry

Leads to lamps carry

Cargo light cables can

DESCRIPTION OF

Conductor

tape. Cable

steel arm

Joints in cables, how

with water

Are all the joints of

made in bunker

Are there any joints

How are the cables

additional

Certificate (if required) to be sent to

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

Are included in Machinery S. S. fee
The amount of Entry Fee .. £ : : When applied for.
Special .. £ : : 19
Donkey Boiler Fee .. £ : : When received.
Travelling Expenses (if any) £ : : 19

Committee's Minute

FRI. 11 JUL. 1919

Assigned

N. L. Jones

Engineer Surveyor to Lloyd's Register of Shipping



© 2021

Lloyd's Register
Foundation