

REPORT ON BOILERS.

No. 21/2

Port of *Kobe*

Received at London Office

19

Survey held at

Kobe

Date, first Survey *14th March*

Last Survey *11th Decem. 1917*

(Number of Visits *19*)

on the

Single Screw Steamer "Celebes Maru"

Tons { Gross *5856*
Net *4257*

Built at

Kobe

By whom built

The Kawasaki Dry Dock Co Ltd

When built

1917

made at

Kobe

By whom made

The Kawasaki Dry Dock Co Ltd

when made

1917

made at

do

By whom made

do

when made

do

red Horse Power

440

Owners

The Osaka Shosen K. Kaisha

Port belonging to

Osaka

TITUBULAR BOILERS

~~MAIN~~ AUXILIARY OR DONKEY

Manufacturers of Steel

Wm Beardmore: David Colville

for record

S

Total Heating Surface of Boilers

1132 sq ft

Is forced draft fitted

Yes

No. and Description of

One Single Ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test *20 Aug 17*

Certificate

LLOYD'S TEST

Can each boiler be worked separately

Area of fire grate in each boiler

33 sq ft

No. and Description of

valves to each boiler

Two Spring loaded

Area of each valve

5.93 sq ft

Pressure to which they are adjusted

205 lbs

by fitted with easing gear

Yes

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

Yes

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

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

No

Material of riveting: cir. seams

Double riv.

long. seams

Double riv.

Diameter of rivet holes in long. seams

1 1/16"

Pitch of rivets

6 29/32 x 3 29/64

width of butt straps

14 1/2 x 1"

Per centages of strength of longitudinal joint

95.2

Working pressure of shell by

Size of manhole in shell

12 x 16"

Size of compensating ring

(7 1/4" + flange) x 1"

No. and Description of Furnaces in each

Material

Steel

Outside diameter

40 1/4"

Length of plain part

236"

Thickness of plates

9/16"

Material of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules

236 lbs

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 1/8"

If stays are fitted with nuts or riveted heads

Nuts in case

Working pressure by rules

204 lbs

Material of stays

Steel

Diameter at

7/8"

Area supported by each stay

66 sq in

Working pressure by rules

242 lbs

End plates in steam space: Material

Steel

Thickness

7/8"

How are stays secured

Double nuts

Working pressure by rules

202 lbs

Material of stays

Steel

Diameter at smallest part

5/8"

Working pressure by rules

238 lbs

Material of Front plates at bottom

Steel

Thickness

3/4"

Material of

Steel

Diameter of tubes

3 1/4"

Material of tube plates

Steel

Thickness: Front

7/8"

Back

3/4"

Mean pitch of stays

8 3/4"

Pitch across wide

8 3/4"

Working pressures by rules

200 lbs

Girders to Chamber tops: Material

Steel

Depth and thickness of

8 x 13/16 (12 in)

Length as per rule

24"

Distance apart

8"

Number and pitch of Stays in each

3 @ 7"

Superheater or Steam chest: how connected to boiler

Yes

Can the superheater be shut off and the boiler worked

Yes

Diameter

10"

Length

10'

Thickness of shell plates

1/2"

Material

Steel

Description of longitudinal joint

Weld

Diam. of rivet

1 1/16"

Pitch of rivets

6 29/32 x 3 29/64

Working pressure of shell by rules

200 lbs

Diameter of flue

10"

Material of flue plates

Steel

Thickness

1/2"

Distance between rings

8"

Working pressure by rules

200 lbs

End plates: Thickness

1/2"

How stayed

By stays

Area of safety valves to superheater

10 sq in

Are they fitted with easing gear

Yes

VERTICAL DONKEY BOILER

No.

Description

Manufacturers of steel

By whom made

By whom made

When made

Where fixed

Working pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

Area of each

Pressure to which they are adjusted

If fitted with easing gear

If steam from main boilers can

the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

Per centage of strength of joint

Working pressure of shell by rules

Thickness of shell crown plates

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Stayed by

Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description,

Manajuma

Manufacturer.

Secretary.

March 14th April 9th May 11th 24th June 9th 16th July 9th 13th 24th 31st Aug 2nd 10th 20th 29th

Nov. 19th 24th 27th Dec 4th 11th 1917

Total No. of visits

19

Is the approved plan of main boiler forwarded herewith

Forwarded

As per Rpt No 2161 on

donkey boiler for "Celebes Maru"

005529-005536-0053

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

This boiler has been made & fitted under Special Survey & the materials & workmanship have been found good

Rpt. 13.

Port of

No. in
Reg. Book

Owners

Yard No.

DESCRIPT

*The
direct*

Capacity

Where is

Position of

Positions

1 on

If fuses a

circuit

If vessel is

Are the fu

Are all fu

are pe

Are all sw

Total numb

A

B *1 on*

C *1 on*

D

E

2

2

2 arc

10 in ca

If arc lights

Where are

DESCRIPTION

Main cable c

Branch cable

Branch cable

Leads to lamp

Large light ca

DESCRIPTION

Arr

insulat

oints in cable

in wa

re all the join

positions

re there any

ow are the c

ny ad

Certificate (if required) to be sent to

The amount of Entry Fee...	£	:	:	When applied for,
Special <i>Entered on the</i>	£	:	:	19
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	£	:	:	19

Arthur L. Jones

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

Committee's Minute

FRI. 22. MAR. 1918

Assigned

See p. 1 of report attached



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Foundation