

REPORT ON BOILERS.

No. 21/2

MUN. 18/11/17

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 Dryd Co Ltd

When built 1917

made at Kobe

By whom made The Kawasaki Dryd Co Ltd

when made 1917

made at do

By whom made do

when made do

Indicated 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

Total Heating Surface of Boilers 11320

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

Can each boiler be worked separately Yes

Area of fire grate in each boiler 33

No. and Description of

valves to each boiler Two Spring loaded

Area of each valve 5.93

Pressure to which they are adjusted 205 lbs

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 1"

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

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

rules 84.6

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

Two Morrison

Material Steel

Outside diameter 40 1/4"

Length of plain part top

Thickness of plates 9/16"

bottom

Material of longitudinal joint Weld

No. of strengthening rings Yes

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 1/2"

Back 7 13/16 x 8 1/8"

If stays are fitted with nuts or riveted heads Nuts in cc

Working pressure by rules 204 lbs

Material of stays Steel

Thickness 7/8"

Area supported by each stay 66

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

Material of stays Steel

Thickness at smallest part 5/8"

Material of Front plates at bottom Steel

Thickness 3/4"

Material of

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"

Material of tube plates Steel

Thickness: Front 7/8"

Back 3/4"

Mean pitch of stays 8 3/4"

Pitch across wide

spaces 13 3/4" : out 5/8"

Working pressures by rules 200 lbs

Girders to Chamber tops: Material Steel

Depth and thickness of

at centre 8 x 13/16 (1200)

Length as per rule 24'

Distance apart 8"

Number and pitch of Stays in each 3 @ 7"

Working pressure by rules 256 lbs

Superheater or Steam chest: how connected to boiler Yes

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

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

Reinforced with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Vertical Donkey Boiler

No. Description

Manufacturers of steel

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

enter the donkey boiler

Dia. of donkey boiler

Length

Material of shell plates

Thickness

Range of tensile

Strength

Descr. 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

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

During progress of work in shops - - -
During erection on board vessel - - -
Total No. of visits 19

Is the approved plan of main boiler forwarded herewith Forwarded
with Rpt No 2161 on
donkey boiler as per Rpt. "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.

DESCRIPTION

The direct

Capacity

Where is

Position of

Positions

1 on

If fuses a

circu

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 M

2

2 are

to inca

If arc lights

Where are

DESCRIPTION

Main cable

Branch cable

Branch cable

Leads to lamp

Cargo light ca

DESCRIPTION

Ar

insulate

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	:	:	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 spec. rpt attached*



© 2020 Lloyd's Register Foundation