

REPORT ON BOILERS.

No. 2544

Port of Kobe

Received at London Office

Survey held at

Osaka

Date, first Survey

30 Oct. 1918

Last Survey

25 April

1919

(Number of Visits

12

Gross

7770

Tons

Net 4823

on the

Steel Twin Sc. Steer "Amur Maru"

Y Hamada

Built at

Osaka

By whom built

The Osaka Iron Works Ltd

When built

1919

made at

Osaka

By whom made

The Osaka Iron Works Ltd

when made

1919

made at

do

By whom made

do

when made

do

ed Horse Power

655

Owners

The Osaka Shosen Kaisha

Port belonging to

Osaka

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

South Durham, Brighton

for record

S

Total Heating Surface of Boilers

1403

1391

Is forced draft fitted

Yes

No. and Description of

One S. E. Ans. blr.

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test

13 June 1919

Certificate

LLOYD'S HYD TEST

100 LBS

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

39.4

No. and Description of

valves to each boiler

Two, spring loaded

Area of each valve

2 1/2" dia.

Pressure to which they are adjusted

205 lbs

if fitted with easing gear

Yes

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

st distance between boilers or uptakes and bunkers or woodwork

15"

Mean dia. of boilers

12' 0"

Length

11' 6"

al of shell plates

Steel

Thickness

1 1/4"

Range of tensile strength

28-32

Are the shell plates welded or flanged

No.

o. of riveting: cir. seams

Steel riv.

long. seams

Steel riv. straps

Diameter of rivet holes in long. seams

1 5/16"

Pitch of rivets

8 3/4" x 4 3/8"

width of butt straps

7 1/2" x 1 1/4"

Per centages of strength of longitudinal joint

91.8

Working pressure of shell by

plate

85.0

Size of manhole in shell

12' x 16"

Size of compensating ring

2' 10" x 3' 7" x 1 1/4"

No. and Description of Furnaces in each

Two "Brighton"

Material

Steel

Outside diameter

3' 11 1/4"

Length of plain part

top

Thickness of plates

5/8"

option of longitudinal joint

Weld

No. of strengthening rings

Working pressure of furnace by the rules

212 lbs

Combustion chamber

Material

Steel

Thickness: Sides

11/16"

Back

11/16"

Top

11/16"

Bottom

7/8"

Pitch of stays to ditto: Sides

8 3/4" x 8 1/2"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

217 lbs

Material of stays

Steel

st part

179

Area supported by each stay

74.4

Working pressure by rules

214 lbs

End plates in steam space: Material

Steel

Thickness

1 1/4"

of stays

17 1/2" x 17"

How are stays secured

Double nuts

Working pressure by rules

247 lbs

Material of stays

Steel

Area

Diameter at smallest part

6.33

supported by each stay

17 1/2" x 17"

Working pressure by rules

220 lbs

Material of Front plates at bottom

Steel

Thickness

1"

Material of

back plate

Steel

Thickness

1"

Greatest pitch of stays

14 1/2" w. sp.

Working pressure of plate by rules

200 lbs

Diameter of tubes

3 1/4"

of tubes

4 1/2" x 4 3/8"

Material of tube plates

Steel

Thickness: Front

1"

Back

7/8"

Mean pitch of stays

11 1/2"

Pitch across wide

spaces

14"

Working pressures by rules

206 lbs

at centre

10 1/4" x 7/8"

(2) Length as per rule

34 1/2"

Distance apart

9"

Number and pitch of Stays in each

3 @ 8"

ing pressure by rules

238 lbs

Superheater or Steam chest: how connected to boiler

Can the superheater be shut off and the boiler worked

tely

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

ened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

ing pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

RTICAL DONKEY BOILER—

No.

Description

Manufacturers of steel

at

By whom made

When made

Where fixed

ing pressure

tested by hydraulic pressure to

No. of Certificate

Fire grate area

Description of safety valves

f 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

th

Descrip. of riveting long. seams

Dia. of rivet holes

Whether punched or drilled

Pitch of rivets

of plating

Per centage of strength of joint

Rivets

Working pressure of shell by rules

Thickness of shell crown plates

is of do.

No. of Stays to do.

Dia. of stays

Diameter of furnace Top

Bottom

Length of furnace

ness of furnace plates

Description of joint

Working pressure of furnace by rules

Thickness of furnace crown

Stayed by

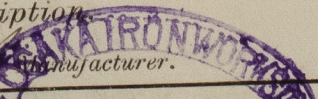
Diameter of uptake

Thickness of uptake plates

Thickness of water tubes

The foregoing is a correct description

Gisaburo Gennaro



30 Oct. 7 1918. 13. 25 Nov. 2. 12. 17 Dec. 1918

9. 14. 15. 25 April 1919

12

During progress of

work in shops - -

During erection on

board vessel - - -

Total No. of visits

Is the approved plan of main boiler forwarded herewith

donkey

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Lloyd's Register Foundation

009469-009480-0173

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

This auxiliary boiler has been made & fitted in accordance with the Rules requirements & under special survey. The materials & workmanship are good. The vessel is in my opinion eligible for the record Aux. S. E. Boiler 200 lbs.

pt. 13.

REPORT

Port of *Kobe*
No. in *on the Iron or*
Book *Built at*
ners *The Osaka*
rd No. *881* *Ele*

DESCRIPTION OF DYNAMO

Enclosed
Signal
Capacity of Dynamo *2*
There is Dynamo fixed
Position of Main Switch *1*
Positions of auxiliary switch
or middle de
or after cargo
cut outs are fitted on m
circuits *fitted*
vessel is wired on the d
re the cut outs of non-oxi
re all cut outs fitted in ea
are permanent instr
re all switches and cut-ou
tal number of lights pr
Engine Room
Shelter deck
Shelter deck
Lower Bridge
Travelling
Middle deck
Mast head light
Side light
are lights, what protecti
key requiring
here are the switches c

DESCRIPTION OF CABLES

in cable carrying *1*
inch cables carrying *3*
inch cables carrying *1*
to lamps carrying *22*
go light cables carrying *1*

DESCRIPTION OF INSULATION

Latex
on and
nts in cables, how made,
porcelain

all the joints of cables
made in bunkers, carry
there any joints in or
are the cables led th

Included in special survey fees of Machinery.			
The amount of Entry Fee...	£	:	When applied for.
Special ...	£	:	19.
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	:	19.

A. E. Jones

Y. Jo. arant.

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

Committee's Minute

FRI. AUG. 29, 1919

Assigned

See minute on
Kobe Rpt 2544 attached

FRI. MAY. 14 1920

TUE. APR. 27 1920

FRI. MAY. 7 1920



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