

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

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

indicated Horse Power 655 Owners The Osaka Shosen Kaisha Port belonging to Osaka

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

are fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Least distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 12' 0" Length 11' 6"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No

Material of riveting: cir. seams Steel Riv. long. seams Steel Riv. straps Steel Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4" x 4 3/8"

Width of butt straps 1 1/2" x 1 1/4" Per centages of strength of longitudinal joint 91.8 Working pressure of shell by

244 lbs 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 7/8" Thickness of plates bottom 5/8"

Material of longitudinal joint Weld No. of strengthening rings 1 Working pressure of furnace by the rules 212 lbs Combustion chamber

Material Steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 7/8" Pitch of stays to ditto: Sides 8 3/4" x 8 1/2" Back 9" x 8"

7" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 217 lbs Material of stays Steel Diameter at

at part 1 7/8" 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 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" double 7/8" Working pressures by rules 206 lbs Girders to Chamber tops: Material Steel Depth and thickness of

at centre 10 1/4" x 7 1/8" (2) Length as per rule 34 1/2" Distance apart 9" Number and pitch of Stays in each 3 @ 8"

Working pressure by rules 238 lbs Superheater or Steam chest; how connected to boiler 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

strengthened 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

at By whom made When made Where fixed

Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves

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

Material of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates

Material 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

Stayed by Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description.

Gisaburo Genuwa Manufacturer.

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

9. 14. 15. 25 April 1919

Total No. of visits 12

Is the approved plan of main boiler forwarded herewith Yes

" donkey "

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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
 Owners *The Osaka*
 No. *881* E.L.

DESCRIPTION OF DYNAMO

Enclosed *...*
 Capacity of Dynamo *2*
 There is Dynamo fixed
 Position of Main Switch *...*
 Positions of auxiliary switches
 or middle deck
 or after cargo
 cut outs are fitted on main
 circuits *fitted*
 essel is wired on the d
 re the cut outs of non-oxid
 re all cut outs fitted in ea
 are permanent instru
 re all switches and cut-ou
 tal number of lights pro
Engine Room 6
Shelter deck aft cabin
Shelter deck fore cabin
Lower Bridge Cabin
Traverse light 4
Middle deck 4
 Mast head light
 Side light
 are lights, what protecti
key requiring
 here are the switches c

DESCRIPTION OF CABLES

in cable carrying *...*
 inch cables carrying *3 1/2*
 inch cables carrying *1 1/2*
 ds to lamps carrying *22*
 go light cables carrying *...*

DESCRIPTION OF INSULATION

at the *...*
 in cables, how made,
porcelain

all the joints of cables
 made in bunkers, carry
 there any joints in or
 are the cables led thro
 s described

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

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. L. Jones *Y. Jo. assist.*
 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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