

REPORT ON BOILERS.

No. 2572

Received at London Office

TUE 23 SEP 1919

Date of writing Report 14 Aug 1919 When handed in at Local Office

191 Port of Kobe

No. in Survey held at Kobe

Date, First Survey 15th July 1919 Last Survey 19 June 1919

Reg. Book.

(Number of Visits 12)

Gross 5859
Net 4260
Tons

on the Steel Single Screw Steamer "Brazil Maru"

Master Built at Kobe By whom built 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 440 Owners The Kawasaki Kisen Kabushiki Kaisha Port belonging to Kobe

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois Iron Pipe & Tube

Letter for record S Total Heating Surface of Boilers 1132 Is forced draft fitted yes No. and Description of

Boilers One S. & Aux. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 14 April 1919

No. of Certificate LLOYD'S TEST No. 128 Can each boiler be worked separately yes Area of fire grate in each boiler 33 No. and Description of

safety valves to each boiler Two Direct Spring Area of each valve 5.93 Pressure to which they are adjusted 205 lbs.

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 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 6 29/32 + 3 29/64

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

rules 200 lbs. Size of manhole in shell 12" x 16" Size of compensating ring (1 1/2" + flange) 1" No. and Description of Furnaces in each

boiler Two "Morison" Material Steel Outside diameter 10 1/4" Length of plain part top 9 1/16" Thickness of plates bottom 9 1/16"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 236 lbs. 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 13/16 x 8 1/8

Top 7 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Area at

smallest part 1.78 Area supported by each stay 66 Working pressure by rules 242 lbs. End plates in steam space: Material Steel Thickness 7/8"

Pitch of stays 5 1/2 x 14 1/2 How are stays secured Doub. nuts Working pressure by rules 202 lbs. Material of stays Steel Area at smallest part 5.24

Area supported by each stay 15 1/2 x 14 1/2 Working pressure by rules 238 lbs. 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 at wide Working pressure of plate by rules 200 lbs. Diameter of tubes 3 1/4"

Pitch of tubes 1 3/4 mean Material of tube plates Steel Thickness: Front 7/8" Back 3/4" Mean pitch of stays 8 3/4" Pitch across wide

water spaces 13 3/4 double 5/8' Working pressures by rules 200 lbs. 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 lbs. 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 _____

UPERHEATER. 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 _____ 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.

Dates of Survey while building: During progress of work in shops - - 15 July, 4, 24, 28 Mar. 5, 9, 12, 14 April
During erection on board vessel - - - June 6, 9, 16, 19, 1919
Total No. of visits 12

Per J. Ota Kane Secretary.

Is the approved plan of main boiler forwarded herewith With Reg. No. 2338 on 23rd Mar. 1919
" " " donkey " " Mr. Starbuck

15/2 4/3 24/3 28/3 5/4 9/4 12/4 14/4

006819-006830-0013

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

This boiler has been made & fitted under special survey in accordance with the Rule requirements & the materials & workmanship are good.

It is submitted that the vessel is eligible for the notation Aux S.E. Br. 200 W.

REPORT

Port of ...
No. in on the ...
Reg. Book ...
Built at ...
Owners: The ...
Yard No. 452

DESCRIPTION OF

Two sets
off vertical
8" dia. 6

Capacity of Dynamo

Where is Dynamo fit

Position of Main Sw

Positions of auxiliar

deck, 1 on

on each

If cut outs are fitted

circuits

If vessel is wired on

Are the cut outs of no

Are all cut outs fitted

are permanent

Are all switches and

Total number of lig

A 1 1

B 1

C 3

D 2

E

2 Mast head

2 Side

7

If are lights, what p

Where are the swi

DESCRIPTION OF

Main cable carrying

Branch

Branch cables carryi

Branch cables carryi

Leads to lamps carry

Cargo light cables car

DESCRIPTION OF

Conductor

tape. Cabl

steel arms

Joints in cables, how

with water

Are all the joints of

made in bunker

Are there any joint

How are the cables

additional

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

| | | |
|--------------------------------|----------------|-------------------|
| The amount of Entry Fee .. £ | inc. included | When applied for, |
| Special | in Machij. | 19 |
| Donkey Boiler Fee | Special Survey | When received, |
| Travelling Expenses (if any) £ | per. | 19 |

Committee's Minute
Assigned
TUE 7-OCT. 1919

A. L. Jones & Aulatt
Engineer Surveyor to Lloyd's Register of Shipping

