

# REPORT ON BOILERS.

Received at London Office

Date of writing Report 191 When handed in at Local Office 191 Port of Kobe  
 No. in Survey held at Kobe Date, First Survey 28 Dec 1918 Last Survey 26 Apr. 1919  
 Reg. Book. on the Steel Single Screw Steamer "Singapore Maru" (Number of Visits 13) Gross 5859 Tons Net 4260  
 Master H. Kouchi Built at Kobe By whom built The Kawasaki Akyd. 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 do. Owners The Kawasaki Kisen Kabushiki Kaisha Port belonging to Kobe

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Illinois St. Co. Amer. Special Tube Co

Letter for record S. Total Heating Surface of Boilers 11320 Is forced draft fitted yes No. and Description of Boilers One 3.6 Aux. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 5/3/19  
 No. of Certificate 409 LRS Can each boiler be worked separately yes Area of fire grate in each boiler 330 No. and Description of safety valves to each boiler Two Direct Spring Area of each valve 5.930 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 tons Are the shell plates welded or flanged no  
 Descrip. of riveting: cir. seams Doub. rivet long. seams Double straps Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 6 3/4" + 3 2/4"  
 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 (4 1/2" + flange) 1" No. and Description of Furnaces in each boiler Two "Mouison" Material Steel Outside diameter 10 1/2" Length of plain part ✓ Thickness of plates crown 9" bottom 1 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 4 x 8 1/2" Back 4 1/16 x 8 1/2"  
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 204 lbs. Material of stays Steel Area at smallest part 1.48" Area supported by each stay 66" Working pressure by rules 212 lbs. End plates in steam space: Material Steel Thickness 4/8"  
 How are stays secured Doub. nuts Working pressure by rules 202 lbs. Material of stays Steel Area at smallest part 5.27  
 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" 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 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 27" Distance apart 8" Number and pitch of Stays in each 3 @ 7"  
 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 \_\_\_\_\_

## 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 \_\_\_\_\_  
 No. 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 \_\_\_\_\_

**Kawasaki Dockyard Co. Ltd.**  
 The foregoing is a correct description,  
 Per Kanajima Manufacturer.  
 Secretary.

Dates: During progress of work in shops - - 28 Dec 1918 25.30 Jan. 4.7.12.15.18.24 Feb. 5 March  
 During erection on board vessel - - - 16.19.26 April 1919  
 Total No. of visits 13  
 Is the approved plan of main boiler forwarded herewith Yes Rpt. No 2528 on S.S. Singapore Maru  
 " " " donkey " " \_\_\_\_\_  
 008288-008295-0044

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

This boiler has been made & fitted on board under Special Survey. The Rules have been complied with & the materials & workmanship are good.

The vessel is eligible, it is submitted, for the notation 1 Aw S. E. Bk. 20

Rpt. 13.

REPORT

Port of *Ko*  
 No. in Reg. Book on the *Keon*  
 Built at *The Keon*  
 Owners *The Keon*  
 Yard No. *450*

DESCRIPTION OF DYNAMO

Two sets of automatic cut 8" dia. 6" stroke

Capacity of Dynamo

Where is Dynamo fixed

Position of Main Switch

Positions of auxiliary switches

*deck, 1 on a*

*Main switch*

If cut outs are fitted on

circuits *Yes*

If vessel is wired on the

Are the cut outs of non-oxidizing

Are all cut outs fitted in

are permanent instruments

Are all switches and cut-outs

Total number of lights per

A *114*

B *13*

C *31*

D *2*

E

*2* Mast head light

*2* Side light

*7*

If are lights, what protection

Where are the switches

DESCRIPTION OF CABLES

Main cable carrying *114*

Branch cables carrying *13*

Branch cables carrying *31*

Leads to lamps carrying *2*

Cargo light cables carrying

DESCRIPTION OF INSULATION

Conductors

rubber and to

chemical action

Joints in cables, how made

*protected with*

Are all the joints of cable

made in bunkers, car

Are there any joints in or

How are the cables led th

*any additional*

Certificates (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

Inclined in Spec. Sur. Machinery Fees		When applied for.
The amount of Entry Fee .. £	:	.....19.....
Special .. .. . £	:	.....19.....
Donkey Boiler Fee .. .. £	:	When received,
Travelling Expenses (if any) £	:	.....19.....

Committee's Minute

FRI. 8-AUG. 1919

Assigned

*See Minute on attached report*

*A. H. Jones & Co. Ltd.*  
 Engineer Surveyor to Lloyd's Register of Shipping



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