

# REPORT ON BOILERS.

No. 2622

Port of Kobe

Received at London Office

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ings cond  
etc.

No. in Survey held at Kobe Date, first Survey Febr. 18<sup>th</sup> Last Survey Sept. 11<sup>th</sup> 1919  
 (Number of Visits 20)  
 on the Steel Single Screw Steamer "Cape Town Maru" Tons } Gross 5863  
 } Net 4263  
 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 N.H.P. 440 Owners The Kawasaki Kisen Kaisha Port belonging to Kobe

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Illinois Steel Co., Carnegie Steel Co., Am. Spiral Pipe Wks.

Letter for record S. Total Heating Surface of Boilers 1132<sup>0</sup> Is forced draft fitted yes No. and Description of Boilers One 5 to auxil. Boiler Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 10-7-19  
 No. of Certificate 400 LBS. 10-7-19 W.L.R. Can each boiler be worked separately yes Area of fire grate in each boiler 33<sup>0</sup> No. and Description of Safety valves to each boiler Two Direct Spring Area of each valve 5.93<sup>0</sup> 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 Double riveted long. seams Double straps Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 6 3/32 + 3 29/64

Lap of plates or width of butt straps 14 1/2" x 1" Per centages of strength of longitudinal joint rivets 95-2 Working pressure of shell by plate 84-6

Size of manhole in shell 12" x 16" Size of compensating ring (7 1/4 + flange) 1" No. and Description of Furnaces in each boiler Two Morrison

Material Steel Outside diameter 40 1/4" Length of plain part 9 1/16" Thickness of plates 9 1/16"

Description of longitudinal joint Weld No. of strengthening rings ✓ 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"

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 Diameter at smallest part 7/8"

How are stays secured Double nuts Working pressure by rules 202 lbs. Material of stays Steel Area Diameter 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" at wide space doubled 5/8" Working pressure of plate by rules 200 lbs. Diameter of tubes 3 1/4"

Pitch of tubes 4 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" doubled 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. 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

If stiffened 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

Made 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

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 Stayed by Kawasaki Dockyard Co., Ltd. Diameter of uptake Thickness of uptake plates Thickness of water tubes

The foregoing is a correct description.

Per J. Uta Kane Secretary. Manufacturer.

Dates of Survey while building  
 During progress of work in shops - - - 1919 Febr. 18, 28; Mar. 3, 10; May 26; June 16, 23, 24, 27; July 2, 7, 10, 11, 15  
 During erection on board vessel - - - Sept. 1, 5, 6, 8, 10, 11.  
 Total No. of visits 20

Is the approved plan of Auxy boiler forwarded herewith No.  
Boiler Plan Same as for 5/8 Port Said Maru  
donkey " " " " Rpt No 2589.

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

The Boiler has been made & fitted under Special Survey.  
The Rules have been complied with and the materials & workmanship found good.

The Vessel is eligible, it is submitted, for the record One 5. to Auxiliary Boiler 200 lbs.

*AW*

Certificate (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...	Included in	When applied for,
Special ...	machinery	19.
Donkey Boiler Fee ...	£ 1st Entry Fees	When received,
Travelling Expenses (if any)£	:	19.

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

Committee's Minute TUE NOV. 18. 1910.

Assigned

Rpt  
Port  
No. in Reg. Bo  
Owner  
Yard No  
DESCR  
Twr  
vrt  
Capacity  
Where is  
Position  
Positions  
deck,  
swit  
If fuses  
circu  
If vessel  
Are the f  
Are all fu  
are p  
Are all sw  
Total numb  
A  
B  
C  
D  
E  
2 M  
2  
7  
If arc lights,  
Where are t  
DESCRIPTION  
Main cable car  
Branch "  
Branch cables  
"  
Branch cables  
Leads to lamps  
Cargo light cabl  
DESCRIPTION  
Condu  
Cables a  
or lead cor  
Joints in cables,  
water-tig  
Are all the joints  
positions, n  
Are there any jo  
How are the cab  
additional