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19

Port of Kobe

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No. in Survey held at  
Reg. Book.

Osaka

Date, First Survey 29 May 1918 Last Survey 10 June 1918

on the Steel Single Screw Steamer "Kaisho Maru"

(Number of Vessels)

Gross 6071  
Net 4433

Master

Built at

Osaka

By whom built

Osaka Iron Works Ltd.

When built

1918

Engines made at

Osaka

By whom made

Osaka Iron Works Ltd.

when made

1918

Boilers made at

do

By whom made

do

when made

do

Registered Horse Power

Owners

Katsuda Kisen Kaisha

Port belonging to Mitsugahama

Nom. Horse Power as per Section 28

553

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

## ENGINES, &amp;c.—Description of Engines

Triple Expansion

No. of Cylinders

No. of Cranks

Dia. of Cylinders 27:45:75 Length of Stroke 57" Revs. per minute 65 Dia. of Screw shaft as per rule 15.27 as fitted 15.37 Material of Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

Yes

Is the after end of the liner made water tight

in the propeller boss Yes If the liner is in more than one length are the joints burned

Yes

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Fit tightly If two

liners are fitted, is the shaft lapped or protected between the liners

Yes

Length of stern bush 5'6"

Dia. of Tunnel shaft as per rule 13.67 as fitted 14" Dia. of Crank shaft journals as per rule 14.35 as fitted 14.76 Dia. of Crank pin 14.76 Size of Crank webs 9 1/2 x 27 1/2 Dia. of thrust shaft under

collars 14 7/8 Dia. of screw 18" 3" Pitch of Screw 18" 3" No. of Blades 4 State whether moveable Yes Total surface 100 sq ft

No. of Feed pumps Two Diameter of ditto 4" Stroke 27" Can one be overhauled while the other is at work

Yes

No. of Bilge pumps Two Diameter of ditto 4 1/2" Stroke 27" Can one be overhauled while the other is at work

Yes

No. of Donkey Engines Three

Sizes of Pumps

Bal. 10 x 13 x 13 Dup.

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 3 1/2" Ber. two 3 1/2" Small 6 x 4 x 6 Dup. In Holds, &amp;c. 3 1/2" each side each hold

Tunnel well on 2 1/2"

No. of Bilge Injections 1 sizes 9" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room of size

Yes 3 1/2"

Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible

None

Are all connections with the sea direct on the skin of the ship

Yes

Are they Valves or Cocks Larger valves: Smaller Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Yes

Are the Discharge Pipes above or below the deep water line

Above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate

Yes

What pipes are carried through the bunkers Tank air pipes

How are they protected Strong wood casing

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Yes

Dates of examination of completion of fitting of Sea Connections 19/4/18 of Stern Tube 30/3/18 Screw shaft and Propeller 15/4/18

Is the Screw Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from Upper parting in Eng. Room

## BOILERS, &amp;c.—(Letter for record

S.)

Manufacturers of Steel

Wm Beardmore &amp; Co. J. D. Napier &amp; Co.

Total Heating Surface of Boilers 8100 Is Forced Draft fitted

Yes

No. and Description of Boilers

Three single ended

Working Pressure 180 lbs Tested by hydraulic pressure to

360 lbs

Date of test

1st April 1918

No. of Certificate

LLOYD'S M.Y.O. TEST 360 LBS

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

63 1/2

No. and Description of Safety Valves to

each boiler Two, spring loaded Area of each valve 3" dia Pressure to which they are adjusted 185 lbs Are they fitted with easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 1' 8" Mean dia. of boilers 15' 0" Length 12' 0" Material of shell plates Steel

Thickness 1 1/4" Range of tensile strength 28.5-32 tons Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Double riv.

long. seams Double riv. Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 9 x 4 1/2 Lap of plates or width of butt straps 1' 7 1/2 x 1 1/8

Per centages of strength of longitudinal joint rivets 89.25 Working pressure of shell by rules 187 lbs Size of manhole in shell 12" x 16"

Size of compensating ring 34" x 38" x 1 1/4 No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 48 1/4"

Length of plain part top Thickness of plates crown 19/32 Description of longitudinal joint Weld No. of strengthening rings

Working pressure of furnace by the rules 195 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 7/8

Pitch of stays to ditto: Sides 8 1/4 x 8 1/2 Back 8 1/2 x 8 1/2 Top 8 x 9 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 lbs

Material of stays Steel Diameter at smallest part 1.79" Area supported by each stay 72 1/4 Working pressure by rules 222 lbs End plates in steam space

Material Steel Thickness 1 7/32 Pitch of stays 18 x 20 How are stays secured Double nuts Working pressure by rules 193 lbs Material of stays Steel

Diameter at smallest part 7.06 Area supported by each stay 18 x 20 Working pressure by rules 204 lbs Material of Front plates at bottom Steel

Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 Greatest pitch of stays 14" Sec. stay Working pressure of plate by rules 180 lbs

Diameter of tubes 3" Pitch of tubes 4 1/4 x 4 1/2 Material of tube plates Steel Thickness: Front 3/4 Back 5/4 Mean pitch of stays 10"

Pitch across wide water spaces 13 1/4 Working pressures by rules 180 lbs Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 9 1/2 x 7 (top) Length as per rule 33 1/2 Distance apart 9" Number and pitch of stays in each 3 @ 8"

Working pressure by rules 218 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

holes 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

Lloyd's Register  
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