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Date of writing Report 22<sup>nd</sup> May 1917 When handed in at Local Office

10 Port of Yokohama

No. in Survey held at Uraga  
Reg. Book.Date, First Survey 9<sup>th</sup> May 1916 Last Survey 20<sup>th</sup> May 1917

on the steel screw steamer "Shingo Maru" (Number of Visits)

Master Built at Uraga By whom built Uraga Dock Co. Ltd. (Yokohama 180) Tons { Gross 4733.61  
Net 4033.99

Engines made at Uraga By whom made Uraga Dock Co. Ltd. when made 1917

Boilers made at do By whom made do. when made 1917

Registered Horse Power 2500 Owners Kishimoto Kisen K. Port belonging to Kishinomiya

Nom. Horse Power as per Section 28 378 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &amp;c.—Description of Engines Triple expansion S.C. No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 24 $\frac{1}{2}$ , 40 $\frac{1}{2}$ , 67 Length of Stroke 48 Revs. per minute 85 Dia. of Screw shaft as per rule 13.9 Material of screw shaft as fitted 14 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 no If the liner is in more than one length are the joints burned no 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 yes If two

liners are fitted, is the shaft lube or protected between the liners yes Length of stern bush 61"

Dia. of Tunnel shaft as per rule 12.5 Dia. of Crank shaft journals as per rule 13.12 Dia. of Crank pin 13 $\frac{1}{4}$  Size of Crank webs 23x8 $\frac{3}{4}$  Dia. of thrust shaft undercollars 13 $\frac{1}{4}$  Dia. of screw 16.9 Pitch of Screw 18.0 No. of Blades 4 State whether moveable yes Total surface 82.2 sq

No. of Feed pumps 2 Diameter of ditto 5 Stroke 24 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 5 Stroke 24 Can one be overhauled while the other is at work yes

No. of Donkey Engines 4 Sizes of Pumps 2 H.P. 9 $\frac{1}{2}$  x 21 x 7 No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 3-3 $\frac{1}{2}$  1 B.P. 8 $\frac{1}{2}$  x 10 $\frac{1}{2}$  x 16 In Holds, &c. N<sup>o</sup> 1 hold 2-2 $\frac{3}{4}$ , N<sup>o</sup> 2 hold2-2 $\frac{3}{4}$ , N<sup>o</sup> 3 hold 1-3 $\frac{1}{2}$ , N<sup>o</sup> 4 hold 1-3 $\frac{1}{2}$ No. of Bilge Injections 1 sizes 7 Connected to condenser or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 3 $\frac{1}{2}$ "

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 Both

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 none How are they protected yes

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

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from E.R. top platform

BOILERS, &amp;c.—(Letter for record S.) Manufacturers of Steel Lamarkshire &amp; Readman

Total Heating Surface of Boilers 6382 Is Forced Draft fitted no No. and Description of Boilers 3. multitubular

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 15-12-16 No. of Certificate 1. 0130

Can each boiler be worked separately yes Area of fire grate in each boiler 60 sq No. and Description of Safety Valves to

each boiler 2. Spring loaded Area of each valve 8.29 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 12 $\frac{1}{2}$  Mean dia. of boilers 13.9 Length 10.10 Material of shell plates S.Thickness 1 $\frac{3}{16}$  Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R.long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 $\frac{1}{4}$  Pitch of rivets 8 $\frac{3}{4}$  Top of plates on width of butt straps 18 $\frac{1}{2}$ 

Per centages of strength of longitudinal joint rivets 88.9 Working pressure of shell by rules 194 Size of manhole in shell 16x12

Size of compensating ring 33x29 No. and Description of Furnaces in each boiler 3. Morrison Material steel Outside diameter 3.8 $\frac{1}{2}$ 

Length of plain part top bottom Thickness of plates crown bottom 9.16 Description of longitudinal joint welded No. of strengthening rings none

Working pressure of furnace by the rules 198 Combustion chamber plates: Material S Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 7/8

Pitch of stays to ditto: Sides 9x7 $\frac{3}{4}$  Back 8 $\frac{3}{4}$ x7 $\frac{3}{4}$  Top 8 $\frac{3}{4}$ x8 If stays are fitted with nuts or riveted heads none Working pressure by rules 192

Material of stays S Area at smallest part 1.79 Area supported by each stay 67.8 Working pressure by rules 192 End plates in steam space:

Material S Thickness 1 Pitch of stays 16 $\frac{1}{2}$ x14 $\frac{1}{8}$  How are stays secured D nuts Working pressure by rules 190 Material of stays S

Area at smallest part 4.37 Area supported by each stay 233 Working pressure by rules 190 Material of Front plates at bottom S

Thickness 1 $\frac{5}{16}$  Material of Lower back plate S Thickness 7/8 Greatest pitch of stays 18.5x7.75 Working pressure of plate by rules 273Diameter of tubes 3 $\frac{1}{4}$  Pitch of tubes 4 $\frac{3}{8}$  Material of tube plates S Thickness: Front 1 $\frac{5}{16}$  Back 3/4 Mean pitch of stays 8 $\frac{3}{4}$ Pitch across wide water spaces 13 $\frac{1}{2}$  Working pressures by rules 197 Girders to Chamber tops: Material S Depth andthickness of girder at centre 7 $\frac{1}{2}$ x1 $\frac{1}{2}$  Length as per rule 2-1 $\frac{5}{8}$  Distance apart 8 Number and pitch of stays in each 2-8 $\frac{3}{4}$ 

Working pressure by rules 227 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

SUPERHEATER. 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

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— 2 connecting rod bottom end bolts, 4 top end bolts, 1 set coupling bolts, 1 set main bearing bolts, 1 set feed & bilge pump valves, 1 set piston rings, 2 sets top end braces, one bottom end, 2 eccentric rods, 3 valve spindles, one circulating pump, impeller, & shaft for same, one air pump rod, etc. bolts & nuts assorted ✓

The foregoing is a correct description,

Y. K. Kaminura

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } May 9, June 7, July 22, Aug 18, Sept 1, 21, 26, Oct 23, Nov 25, Dec 2, 5, 8, 15, 29.  
{ During erection on board vessel -- } Jan 25, 28, Feb 8, 22, March 15, April 10, 19, 21, 29, May 9, 18, 20.  
Total No. of visits 28

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders Oct. Dec. Slides 15 Dec. Covers 15<sup>th</sup> Dec. Pistons 29<sup>th</sup> Dec. Rods 29<sup>th</sup> Dec.  
Connecting rods 15<sup>th</sup> Dec. Crank shaft 29<sup>th</sup> April Thrust shaft 25<sup>th</sup> Nov. Tunnel shafts 8<sup>th</sup> Feb. Screw shaft 8<sup>th</sup> Feb. Propeller 7<sup>th</sup> May  
Stern tube 10<sup>th</sup> April Steam pipes tested 9<sup>th</sup> May Engine and boiler seatings 19<sup>th</sup> April Engines holding down bolts 9<sup>th</sup> May  
Completion of pumping arrangements 18<sup>th</sup> May Boilers fixed 7<sup>th</sup> May Engines tried under steam 18<sup>th</sup> May  
Completion of fitting sea connections 7<sup>th</sup> May Stern tube 7<sup>th</sup> May Screw shaft and propeller 7<sup>th</sup> May  
Main boiler safety valves adjusted 15<sup>th</sup> May Thickness of adjusting washers For. & A. S. 3/4, P. 3/8, S. 1/4, F. 1/16, P. 1/4, F. 3/8  
Material of Crank shaft S Identification Mark on Do. 130 Material of Thrust shaft S Identification Mark on Do. 130  
Material of Tunnel shafts S Identification Marks on Do. 130 Material of Screw shafts S Identification Marks on Do. 130  
Material of Steam Pipes Seamless steel pipes Test pressure 540 lbs.

Is an installation fitted for burning oil fuel no

Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case no If so, state name of vessel "Shinsei Maru"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey the material and workmanship is good, and eligible in my opinion for record + L.M.C. 5.17.

It is submitted that  
this vessel is eligible for  
THE RECORD. + L.M.C. 5.17.

The amount of Entry Fee ... 730.00 When applied for,  
Special ... 584.00 24.5.19  
Donkey Boiler Fee ... £ ✓ When received,  
Travelling Expenses (if any) £ 1-6-19

Committee's Minute

Assigned

FRI 13 JUL 1917

+ L.M.C. 5.17.

MACHINERY CERTIFICATE  
WRITTEN

James Cairns  
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation