

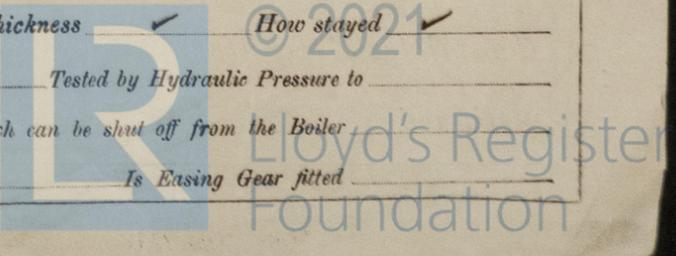
Received at London Office WED. 11 JUL. 1917

Date of writing Report 22nd May 1917 When handed in at Local Office 10 Port of Yokohama
No. in Survey held at Uraga Date, First Survey 9th May 1916 Last Survey 20th May 1917
Reg. Book. on the steel screw steamer "Shingo Maru" (Number of Visits)
Master Built at Uraga By whom built Uraga Dock Co. Ltd. (Tada No. 130) When built 1917
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, &c.—Description of Engines Triple expansion S.C. No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 24 1/2, 40 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 lashed 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 1/4 Size of Crank webs 23x8 1/2 Dia. of thrust shaft under collars 13 1/4 Dia. of screw 16.9 Pitch of Screw 18.0 No. of Blades 4 State whether moceable 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 1/2 x 2 1/2 x 7 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 3-3 1/2 1 B.P. 8 1/2 x 10 1/2 x 16 In Holds, &c. No. 1 hold 2-2 3/4, No. 2 hold 2-2 3/4, No. 3 hold 1-3 1/2, No. 4 hold 1-3 1/2
No. of Bilge Injections 1 sizes 7 Connected to condenser or circulating pump yes Is a separate Donkey Suction fitted in Engine room & 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 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, &c.—(Letter for record S.) Manufacturers of Steel Lamarkshire & 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. U130
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 sq 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 1/2 Mean dia. of boilers 13.9 Length 10.10 Material of shell plates S
Thickness 1 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 1/4 Pitch of rivets 8 3/4 Top of plates on width of butt straps 18 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 1/2
Length of plain part top bottom Thickness of plates crown bottom 9/16 Description of longitudinal joint weld 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 3/4 Back 8 3/4x7 3/4 Top 8 3/4x8 If stays are fitted with nuts or riveted heads nuts 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 1/2 x 14 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 15/16 Material of Lower back plate S Thickness 7/8 Greatest pitch of stays 18.5x7.75 Working pressure of plate by rules 273
Diameter of tubes 3 1/4 Pitch of tubes 4 3/8 Material of tube plates S Thickness: Front 15/16 Back 3/4 Mean pitch of stays 8 3/4
Pitch across wide water spaces 13 1/2 Working pressures by rules 197 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 1/2 x 1 1/2 Length as per rule 2-1 5/8 Distance apart 8 Number and pitch of stays in each 2.8 3/4
Working pressure by rules 227 Steam dome: description of joint to shell yes % of strength of joint yes
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 or bilge pump valves, 1 set piston rings, 2 sets top end brasses, 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. Kominura 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 --- } May 9, 18, 20.
Total No. of visits 28

Is the approved plan of main boiler forwarded herewith no ✓

Is the approved plan of main boiler forwarded herewith " donkey " " " ✓

Dates of Examination of principal parts—Cylinders Oct. Dec. Slides 15 Dec. Covers 15th Dec. Pistons 29th Dec. Rods 29th Dec.
Connecting rods 15th May Crank shaft 29th April Thrust shaft 25th Nov. Tunnel shafts 8th Feb. Screw shaft 8th Feb. Propeller 7th May
Stern tube 10th April Steam pipes tested 9th May Engine and boiler seatings 19th April Engines holding down bolts 9th May
Completion of pumping arrangements 18th May Boilers fixed 7th May Engines tried under steam 18th May
Completion of fitting sea connections 7th May Stern tube 7th May Screw shaft and propeller 7th May
Main boiler safety valves adjusted 15th May Thickness of adjusting washers For A. W. S 3/4 P 3/8 Stawler E. 1/4 Packer F. 7/16

Material of Crank shaft S Identification Mark on Do. 130 JFC Material of Thrust shaft S Identification Mark on Do. 130 JFC
Material of Tunnel shafts S Identification Marks on Do. 130 JFC Material of Screw shafts S Identification Marks on Do. 130 JFC
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.

J.W.D.
11/7/17

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

The amount of Entry Fee ... 730.00
Special ... 584.00 When applied for, 24.5.17
Donkey Boiler Fee ... £ ✓ : When received, 1-6-17
Travelling Expenses (if any) £ : JFC

Committee's Minute FRI 13 JUL 1917

Assigned + L.M.C. 5.17.

MACHINERY CERTIFICATE WRITTEN



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