

Date of writing Report 15 When handed in at Local Office 10 Port of Kobe
No. in Survey held at Kobe Date, First Survey 11th Sept Last Survey 30th March 1920
Reg. Book. on the Steel Single Screw Steamer "Samarang Maru" (Number of Plates) Gross 3909.26
Master Morita Built at Kobe By whom built Mitsui Bishi Loen Kaisha Net 2447.57
Engines made at Kobe By whom made Mitsui Bishi Loen Kaisha when made 1920
Boilers made at Kobe By whom made " when made 1920
Registered Horse Power Owners Nanyo Yusen Kaisha Port belonging to Kobe
Nom. Horse Power as per Section 28 246 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
Dia. of Cylinders 23.38 : 64 Length of Stroke 48 Revs. per minute Dia. of Screw shaft as per rule 15 Material of screw shaft Steel
Is the screw shaft fitted with a continuous liner the whole length of the stern tube no liner Is the after end of the liner made water tight
in the propeller boss If the liner is in more than one length are the joints burned ✓ 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 ✓ If two
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 5'-2 1/8 (white metal)
Dia. of Tunnel shaft as per rule 12.49 ✓ Dia. of Crank shaft journals as per rule 13.116 ✓ Dia. of Crank pin 14 Size of Crank webs 25x8 3/4 Dia. of thrust shaft under
collars 13 1/2 Dia. of screw 17-7 Pitch of Screw 17'-2 1/2 No. of Blades 4 State whether moveable Yes Total surface 76 sq. ft.
No. of Feed pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Donkey Engines Sizes of Pumps 2 sets 8x6x21 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 3@3 1/2 In Holds, &c. 2@3 1/2 in each nos 1, 2, 3, 4 holds
1@2 1/2 tunnel well
No. of Bilge Injections 1 size 7 1/2 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 4 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 Yes
Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Large 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 ✓ How are they protected ✓
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 Feb 20 of Stern Tube Feb 10 of Screw shaft and Propeller Feb 21
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 Kure, Naval Arsenal
Total Heating Surface of Boilers 2197.1 Is Forced Draft fitted Yes No. and Description of Boilers Two single ended
Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 13th Feb No. of Certificate Lloyd's Test
Can each boiler be worked separately Yes Area of fire grate in each boiler 54.312 sq. ft. No. and Description of Safety Valves 2
each boiler Two Spring loaded Area of each valve 19.24 Pressure to which they are adjusted 200 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 14'-0" Length 11'-6" Material of shell plates Steel
Thickness 1 5/16 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DRL
Long. seams TRDBS Diameter of rivet holes in long. seams 1 3/8 Pitch of rivets 9 1/2 Top of plates or width of butt straps 20 1/2
Per centages of strength of longitudinal joint rivets 88.6 Working pressure of shell by rules 220 lbs Size of manhole in shell 12x16
Size of compensating ring 37x33x1 1/4 No. and Description of Furnaces in each boiler Three Morrison Material Steel Outside diameter 45 1/4
Length of plain part top ✓ Thickness of plates crown 5/8 Description of longitudinal joint Weld No. of strengthening rings ✓
Working pressure of furnace by the rules 222 Combustion chamber plates: Material Steel Thickness: Sides 3/4 Back 3/4 Top 3/4 Bottom 15/16
Pitch of stays to ditto: Sides 8x11 Back 9x10 1/8 Top 7x9 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 211
Material of stays Steel Diameter at smallest part 2 3/8 Area supported by each stay 9.125 Working pressure by rules 233 End plates in steam space:
Material Steel Thickness 1 9/32 Pitch of stays 20x18 How are stays secured ON & W Working pressure by rules 214 lbs Material of stays Steel
Diameter of smallest part 3 1/8 Area supported by each stay 20x18 Working pressure by rules 221 Material of Front plates at bottom Steel
Thickness 3/32 Material of Lower back plate Steel Thickness 3/32 Greatest pitch of stays 14 1/4 x 11 Working pressure of plate by rules 259
Diameter of tubes 3 1/4 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates Steel Thickness: Front 3/32 Back 27/32 Mean pitch of stays 13 1/2 x 8 3/4
Pitch across wide water spaces 13 3/4 Working pressures by rules 200 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 10 1/4 x 1 3/4 Length as per rule 2'-7 29/32 Distance apart 9 3/4 Number and pitch of stays in each 3@7
Working pressure by rules 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

If so, is a report now forwarded?

- 2 Connecting Rod top end bolts + nuts
- 2 Connecting Rod bottom end bolts + nuts
- 2 main bearing bolts
- 1 set of coupling bolts
- 1 set of feed and oil pump valves
- 1 set of piston springs

Quantity of assorted bolts & nuts
 1 lb of various sizes
 Air pump rod.
 2 Eccentric rods (pair)
 Three valve spindles 20P 2P 2P
 2 Safety valves Springs etc

Mr. Haranishi

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	Sept 11 Oct 16, 21, 23, 25 Nov 7, 19, 21, 25 Dec 8, 15, 16, 19, 20, 24, 27
	During erection on board vessel - -	Jan 10, 15, 16, 20, Feb 4, '13, 19 Feb 24 26, 28 March 4, 8, 18 30
	Total No. of visits	30.
	Is the approved plan of main boiler forwarded herewith	

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders Nov 19 Slides Nov 19 " " donkey " Nov 19 " " Feb 19
Connecting rods Feb 19 Crank shaft Nov 19 Thrust shaft 11.9.19 Tunnel shafts 11.9.19 Screw shaft March Propeller March 8
Stern tube Nov 19 Steam pipes tested March 8 Engine and boiler seatings 6th Feb Engines holding down bolts March 5.
Completion of pumping arrangements March 14 Boilers fired March 4 Engines tried under steam March 15.
Main boiler safety valves adjusted March 15. Thickness of adjusting washers Lock Nut-

Material of Crank shaft Steel Identification Mark on Do. 24.10.19 220 YDS 11.9.19 TGF
 Material of Thrust shaft Steel Identification Mark on Do. 24.10.19 220 YDS 11.9.19 TGF
 Material of Tunnel shafts Steel Identification Marks on Do. 24.10.19 220 YDS 11.9.19 TGF
 Material of Screw shafts Steel Identification Marks on Do. 24.10.19 220 YDS 11.9.19 TGF
 Material of Steam Pipes Copper & Steel 400 lbs 600 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 ☒ If so, state name of vessel ☒

General Remarks—(State quality of workmanship, opinions as to class, &c.)

The Machinery has been made under Special Survey in accordance with the requirements of the Rules and the materials and workmanship have been found good.

The Machinery is shippable in our opinion to the
Record of + LMC 3, 20.

It is submitted that
this vessel is eligible for
FPH RECORD. FLMC 3.20 FH

RM
9/8/20

The amount of Entry Fee	£	20	When applied for,
Special	£	565	24 th May 1930
Donkey Boiler Fee	£		When received
Travelling Expenses (if any)	£		30/12/30

Committee's Minute

Assigned

FRI AUG. 13 1920

7 d. MC 3.20 5/10

CERTIFICATE WRITING

R. Batches & J. G. L. & Co.
Engineers & Surveyors to Lloyd's Register of British & Foreign Shipping

Lloyd's Register
Foundation