

Date of writing Report 10 Oct 1917 When handed in at Local Office 19 Port of Kobe
No. in Survey held at Osaka & Imosshima Date, First Survey 23rd April Last Survey 10 Sept 1917
Reg. Book. on the Steel Single Screw Steamer "Meichi Maru" (Number of Visits 26)
Master Y. Koike Built at Imosshima By whom built The Osaka Iron Works, Imos. Bt. Tons Gross 3191.08 Net 1981.18
Engines made at Osaka By whom made The Osaka Iron Works Ltd. when made 1917
Boilers made at do By whom made do when made do
Registered Horse Power Owners Meiji Kaisha R. Kaisha Port belonging to Yawumi
Nom. Horse Power as per Section 28 288 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines

Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 22 : 37 : 61 Length of Stroke 42 Revs. per minute 70 Dia. of Screw shaft as per rule 12.8 Material of screw shaft 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 Lightly fitted with two
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 4' 8 3/4"
Dia. of Tunnel shaft as per rule 11.2 Dia. of Crank shaft journals as per rule 11.77 Dia. of Crank pin 12 Size of Crank webs 7 3/8 x 23 Dia. of thrust shaft under
collars 12 Dia. of screw 16 0 Pitch of Screw 16 0 No. of Blades 4 State whether moveable No Total surface 43 1/2"
No. of Feed pumps Two Diameter of ditto 3 1/4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Bilge pumps Two Diameter of ditto 3 1/2 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Donkey Engines Two Sizes of Pumps Bal. 4.8 3/4 x 9 Dupl. No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two 3" & in boiler room Two 3" In Holds, &c. Two 3" in each hold. After bulk 3 1/2"
No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump Cir. p. 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 Larger valves: smaller Cocks.
Are they fired 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 upper platform in E. Rm.

BOILERS, &c.—(Letter for record 5)

Manufacturers of Steel Imp. Yamata Seitetsusha, Doshima, Japan
Total Heating Surface of Boilers 3824 Is Forced Draft fitted Yes No. and Description of Boilers Two Single Ended
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 10 1/16 Aug 1917 No. of Certificate 360 LBS. M.Y.D.
Can each boiler be worked separately Yes Area of fire grate in each boiler 45 No. and Description of Safety Valves to
each boiler Two direct spring Area of each valve 3 1/2 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 10" Mean dia. of boilers 13.6 Length 11.6 Material of shell plates Steel
Thickness 1 3/32 Range of tensile strength 28 3/4 - 32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double
long. seams Double riveted Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 1/8 x 4 1/16 Top of plates on width of butt straps 17 3/4 x 1"
Per centages of strength of longitudinal joint rivets 92.9 x 88.5 Working pressure of shell by rules 184 lbs Size of manhole in shell 12 x 16 in End plate
Size of compensating ring Flanged end pl. No. and Description of Furnaces in each boiler Three Brighton Material Steel Outside diameter 40 1/4"
Length of plain part top Thickness of plates crown 1/2 Description of longitudinal joint Weld No. of strengthening rings
bottom Thickness of plates bottom 1/2 Working pressure of furnace by the rules 184 lbs Combustion chamber plates: Material Steel Thickness: Sides 23/32 Buck 23/32 Top 23/32 Bottom 7/8
Pitch of stays to ditto: Sides 9 x 10 Back 8 3/4 x 10 Top 9 x 10 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 187 lbs
Material of stays Steel Area at smallest part 21 Area supported by each stay 94 1/2 Working pressure by rules 199 lbs End plates in steam space:
Material Steel Thickness 1 3/8 Pitch of stays 25 x 19 How are stays secured Double nuts Working pressure by rules 180 lbs Material of stays Steel
Area at smallest part 8 x 29 Area supported by each stay 25 x 19 Working pressure by rules 180 lbs Material of Front plates at bottom Steel
Thickness 1 Material of Lower back plate Steel Thickness 15/16 Greatest pitch of stays 14 at head Working pressure of plate by rules 180 lbs
Diameter of tubes 3 Pitch of tubes 4 3/8 x 4 1/4 Material of tube plates Steel Thickness: Front 1" Back 13/16 Mean pitch of stays 10 1/2"
Pitch across wide water spaces 14 Working pressures by rules 180 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 9 1/2 x 13 (2) Length as per rule 32 Distance apart 10 1/2 Number and pitch of stays in each Two @ 9"
Working pressure by rules 202 lbs 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 None

Date of Approval of Plan Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Date of Test Pressure to which each is adjusted Is Easing Gear fitted
Diameter of Safety Valve

Tested by Hydraulic Pressure to

Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:-

Two cross head bolts & nuts. Two crank pin bolts & nuts.
Two main bearing bolts & nuts. Set coupling bolts & nuts.
Feed & bilge pump valves. Set piston springs. Assorted bolts & nuts.
Iron of various sizes.

The foregoing is a correct description

1st class sign here

G. Yumoto



Dates of Survey while building { During progress of work in shops -- 23rd April 7, 8, 16, 27, 30 May. 4, 14, 19 June 6, 7, 10, 18, 26, 28, 30 July
During erection on board vessel -- 10, 11, 13, 16, 24, 25, 29 Aug 3, 9, 10 Sept. 1917
Total No. of visits 26. (4 visits to Sumitomo Steel Works for inspecting shafting (Copies of certificates already sent))

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts - Cylinders 4/6/17 Slides 7/7/17 The Covers 7/7/17 Pistons 10/7/17 Rods 19/6/17

Connecting rods 19/6/17 Crank shaft 8/6/17 Thrust shaft 16/4/17 Tunnel shafts 23/4/17 Screw shaft 11/5/17 Propeller 10/8/17

Stern tube 10/8/17 Steam pipes tested 29/8/17 Engine and boiler seatings 16/8/17 Engines holding down bolts 3/9/17

Completion of pumping arrangements 9/8/17 Boilers fixed 29/8/17 Engines tried under steam 9/9/17

Completion of fitting sea connections 16/8/17 Stern tube 13/8/17 Screw shaft and propeller 24/8/17

Main boiler safety valves adjusted 9/9/17 Thickness of adjusting washers Locknuts

Material of Crank shaft Steel Identification Mark on Do. LLOYDS 21-5-17(1) Material of Thrust shaft Steel Identification Mark on Do. LLOYDS 16-4-17(1)

Material of Tunnel shafts Steel Identification Marks on Do. A.L.J. Material of Screw shafts Steel Identification Marks on Do. LLOYDS 11-5-17(1)

Material of Steam Pipes Steel Test pressure 540 lbs

Is an installation fitted for burning oil fuel No A.L.J. 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 Yes If so, state name of vessel Pekin Maru, Tensho Maru, Yuki Maru, Sekkou Maru etc.

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

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

The machinery is eligible in my opinion for the record + LMC 9.17

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 9.17. F.D.

Arthur L. Jones
5/1/18
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... Yes : 20 :
Special ... Yes 516 : 13th Sep. 1917
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : 1st Oct. 1917

Committee's Minute TUE 8-JAN. 1918

Assigned

+ LMC 9.17



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