

REPORT ON MACHINERY.

TUE 13 NOV 1917
No. 2058

Resolved at London Office

12 NOV 1917

Date of writing Report 30 Aug. 1917 When handed in at Local Office 10 Port of Kobe
No. in Survey held at Kobe Date, First Survey 17 Jan'y 17 Last Survey 8th August 1917
Reg. Book. on the Steel Single Screw Steamer "Genmei Maru" (Number of Visits Gross 3180.8
Master I. Matsubayashi Built at Kobe By whom built The Mitsubishi Dryd & E. Wks Tons Net 1941.4
Engines made at Kobe By whom made The Mitsubishi Dryd & E. Wks When built 1917
Boilers made at do By whom made do when made do
Registered Horse Power Owners Hyenishi Shokai, Ltd. Port belonging to Kobe
Nom. Horse Power as per Section 28 270 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 19:32:54 Length of Stroke 48 Revs. per minute 68 Dia. of Screw shaft as per rule 12 3/4 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 1 length 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 Light If two
liners are fitted, is the shaft lapped or protected between the liners 3 Length of stern bush 4' 8 1/2"
Dia. of Tunnel shaft as per rule 11 1/2 Dia. of Crank shaft journals as per rule 11 3/4 Dia. of Crank pin 12 1/4 Size of Crank webs 8 x 22 1/2 Dia. of thrust shaft under
collars 12 Dia. of screw 15:10 Pitch of Screw 16:6 No. of Blades 4 State whether moveable No Total surface 77
No. of Feed pumps 2 Diameter of ditto 3 3/4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 3 3/4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps Duplex ballast 8:9:10 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Three 3" + one 3" to tunnel well In Holds, &c. Two 3" dia to each hold
No. of Bilge Injections 1 sizes 5 1/2 Connected to condenser, or to circulating pump No 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 No
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 None 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
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from upper grating in E. Rm

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel Glasgow Iron & Steel Co. Ltd. Lishaw
Total Heating Surface of Boilers 3704 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 tests 14 June 1917 No. of Certificate LLOYD'S TEST
Can each boiler be worked separately Yes Area of fire grate in each boiler 46 1/2 No. and Description of Safety Valves to
each boiler Two Direct spring Area of each valve 3 1/4 dia. Pressure to which they are adjusted 205 lbs Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 13:6 Length 11:6 Material of shell plates Steel
Thickness 1 1/4 Range of tensile strength 28-32 lbs Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Doub. riv.
long. seams Str. no. Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 5/8 x 4 5/16 Top of plates or width of butt straps 18 3/8
Per centages of strength of longitudinal joint rivets 85:0 plate 85:5 Working pressure of shell by rules 207 lbs Size of manhole in shell 12 x 16
Size of compensating ring (7 1/2 + flange) x 1 1/4 No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 40 1/2
Length of plain part top Thickness of plates crown 16 1/2 Description of longitudinal joint Welded No. of strengthening rings
bottom Thickness of plates bottom 32 Working pressure of furnace by the rules 202 lbs Combustion chamber plates: Material Steel Thickness: Sides 25/32 Back 21/32 Top 23/32 Bottom 25/32
Pitch of stays to ditto: Sides 8 x 10 1/2 Back 8 1/4 x 8 Top 10 1/2 x 8 If stays are fitted with nuts or riveled heads Nuts Working pressure by rules 210 lbs
Material of stays Steel Area at smallest part 1:73 207 Area supported by each stay 8 x 10 1/2 Working pressure by rules 209 lbs End plates in steam space:
Material Steel Thickness 1 1/8 Pitch of stays 16 1/2 x 18 1/4 How are stays secured Double nuts Working pressure by rules 200 lbs Material of stays Steel
Area at smallest part 6:4 Area supported by each stay 16 1/2 x 18 1/4 Working pressure by rules 220 lbs Material of Front plates at bottom Steel
Thickness 29 Material of Lower back plate Steel Thickness 27 Greatest pitch of stays 14 at ends Working pressure of plate by rules 200 lbs
Diameter of tubes 3 Pitch of tubes 4 1/2 x 4 1/4 Material of tube plates Steel Thickness: Front 29/32 Back 7/8 Mean pitch of stays 8 3/4
Pitch across wide water spaces 13 5/8 x 14 Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 11 1/4 x 13 1/4 Length as per rule 34 1/2 Distance apart 10 1/2 x 8 1/4 Number and pitch of stays in each 3 @ 8
Working pressure by rules 240 + 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 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

If not, state whether, and when, one will be sent

Is a Report also sent on the Hull of the Ship?

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two main bearing bolts + nuts ✓ Set feed + bilge pump valves ✓
Two crank pin bolts + nuts ✓ Piston packing for each size ✓
Two crosshead bolts + nuts ✓ Set safety valve springs ✓
Set coupling bolts + nuts ✓ Assorted bolts + nuts + iron various sizes ✓

The foregoing is a correct description,

MITSUBISHI DOCKYARD & ENGINE WORKS, KOBE.

Manufacturer.

General Manager.

Dates of Survey while building { During progress of work in shops -- }
{ During erection on board vessel --- }
Total No. of visits

17 Jan'y to 30 June 1917

30 June to 8 August 1917

Continuous attendance

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 21/3/17 ✓ Slides 26/5/17 ✓ Covers 19/5/17 ✓ Pistons 11/5/17 ✓ Rods 6/5/17 ✓
Connecting rods 30/4/17 ✓ Crank shaft 29/5/17 ✓ Thrust shaft 30/3/17 ✓ Tunnel shafts 15/6/17 ✓ Screw shaft 22/6/17 ✓ Propeller 21/6/17 ✓
Stern tube 10/4/17 ✓ Steam pipes tested 19/7/17 ✓ Engine and boiler seatings 12/6/17 ✓ Engines holding down bolts 12/7/17 ✓
Completion of pumping arrangements 23/7/17 ✓ Boilers fixed 12/7/17 ✓ Engines tried under steam 31/7/17 ✓
Completion of fitting sea connections 30/6/17 ✓ Stern tube 22/6/17 ✓ Screw shaft and propeller 30/6/17 ✓
Main boiler safety valves adjusted 26/7/17 ✓ Thickness of adjusting washers Lock nuts. 1/2" intervals
Material of Crank shaft Steel Identification Mark on Do. LLOYDS 29.5.17 ✓ Material of Thrust shaft Steel Identification Mark on Do. MT. 1. 30.3.17 ✓
Material of Tunnel shafts Steel Identification Marks on Do. R.A.L.J. 22.6.17 ✓ Material of Screw shafts Steel Identification Marks on Do. R.A.L.J. 22.6.17 ✓
Material of Steam Pipes Steel ✓ Test pressure 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

No

If so, state name of vessel

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 in my opinion renders the vessel eligible for the notation + L.M.C. 8.17 in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD. + L.M.C. 8.17. F.D.

The amount of Entry Fee ... 20/-
Special ... 502/-
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 31st Aug 1917
When received, 5 Sep 1917

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 16 NOV. 1917

+ L.M.C. 8.17

MACHINERY DATE WRITTEN



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Foundation