

# Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office)

4 DEC 1941

Date of writing Report 2nd Sept. 1941 When handed in at Local Office 19th Sept. 1941 Port of Kobe

Survey held at Tama Date, First Survey 11/7/41 Last Survey 30/8/1941  
(No. of Visits 6)

on the Machinery of the ~~XXXXXX~~ Steel M/S "SIKISAN MARU"

Gross 4725 Vessel built at Glasgow By whom D & W Henderson & Co. Ltd. When 1925, 3 mo.  
Net 2708 Engines made at Glasgow By whom D & W Henderson & Co. Ltd. When 1925

Power 489 NHP Boilers, when made (Main) -- (Donkey) 1925

Main Boilers -- Owners Mitsui Bussan Kaisha Ltd. Owners' Address --  
(if not already recorded in Appendix to Register Book.)

Donkey Boilers 1 Managers -- Port Kobe Voyage --

Main Boilers -- If Surveyed Afloat or in Dry Dock Both  
(State name of Dock.) Tama Dock

Donkey Boilers 100 lbs.

Report No. -- Port --

Particulars of Examination and Repairs (if any) COMPL. OF LMC (CS) TS, DBS, SRL, & \*100A1 with free-board 6,40. 2.41

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

CHARACTER.	Machinery and Boiler
For Special Survey	*LMC (CS) 6,37
Date of last Survey and of Periodical Surveys.	6,40
	DBS 6,40
	TS (CL) 6,38
	ssTama No. 3-6,37

Surveyor personally go inside each Main Boiler separately and make a thorough examination at this time? --

Donkey -- Yes

Surveyor examine the Safety Valves of the Main Boiler? -- To what pressure were they afterwards adjusted under steam? --

Surveyor examine the Safety Valves of Donkey Boiler? Yes To what pressure were they afterwards adjusted under steam? 100 lbs.

Surveyor examine all the manholes, doors and their fastenings of the Main Boilers? -- and of the Donkey Boilers? Yes

Surveyor examine the drain plugs of the Main Boilers? -- and of the Donkey Boilers? --

Surveyor examine all the mountings of the Main Boilers? -- and of the Donkey Boilers? Yes

Shaft now been drawn and examined? Yes Is it fitted with continuous liner? Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? --

Shaft now fitted been previously used? -- Has it a continuous liner? -- Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated? --

Date of examination of Screw Shaft Aug. 1941 State the distance between lignum vitae of stern bush and top of after bearing of screw shaft 5/32"

Is electric light and power fitted? Yes

Surveyor examine the generators, motors, switchgear, cables and fuses? Yes

Insulation resistance of the generators, circuits and apparatus been tested and found to be not less than 100,000 ohms? Yes

Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete.

**NOTE:-** Vessel placed in dry dock, propeller, aft end of stern bushes, sea cocks and valves their shell fastenings, examined and found or now placed in good condition.

Tail Shaft with continuous liner, examined and found in good condition.

The following parts of main and auxiliary machineries opened up, examined, and found or placed in good condition:-

**ENGINE:-** Nos. 1, 3, 4, 5 & 6 cylinders, pistons, valves, gears and covers.  
Nos. 1 & 3 crossheads and ~~girders~~ guides.  
Nos. 1, 7 & 8 crankshaft journals.  
Thrust and intermediate shafts.

(Continued)

**General Observations, Opinion, and Recommendation:-** The Machinery and Boiler of this vessel are in good condition and eligible in our opinion to be continued as classed with fresh of \*LMC (CS) 8, 41. D.B.S. 8, 41. and Tail Shaft seen 8,41.

(per Section 20) Yen : 200.00 Fees applied for 30/8 1941

(per Section 20.) (Elec. Surv.) Yen 120.00

Expenses (if chargeable) Yen : --

(See Hull Report)

Committee's Minute TUE. 30 DEC 1941

Engineer Surveyor to Lloyd's Register of Shipping. K. Pandey

Lloyd's Register Foundation



Main Compressor - all working parts except bearing.

All (3) dynamo engines - all parts with compressor air bottle.

Motor driven air compressor.

Emergency compressor.

Outboard starting air receiver - internally.

Centre H.P. air bottle - internally.

2 piston cooling water pumps.

Outboard L.O. pump.

Aft O.F. transfer pump.

Bilge pump.

Ballast pump.

Starboard O.F. service tank.

*Pumping arrangements.*

Electric Installation megger tested, switchboard and fuses examined and found or now placed in good condition, installation afterwards tested under working conditions with satisfactory results.

The one Donkey Boiler examined over all parts with doors, mountings and safety valves and found or now placed in good condition. Safety valves adjusted under steam as stated above.

The oil fuel installation for Donkey Boiler examined under working condition and found in order.

Steam piping examined in place and found in order.

S. R. L.:- L.M.C. (CS) completed the cycle.

ALTERATION TO DYNAMO ENGINE:-

3 Dynamo Engines have now been altered to solid injection system by fitting high pressure fuel oil pump and changing cams and governor gears, etc.

The previous low pressure fuel oil pump is used now for primary pump.

Castings and pipings were tested as necessary.

Engines tried on completion with satisfactory results.

Blast air bottles removed ashore.

Air compressors remain on board but out of working order.

REPAIRS DUE TO WEAR AND TEAR:-

Main Engine No. 6 cylinder head renewed on account of crack in way of escape valve pocket.

Main Engine Nos. 1, 3, 4 and 6 piston crowns renewed due to excessive width of packing ring landing.

Main Engine Nos. 1, 3, 4, 5 and 6 cylinder liners renewed due to wear.

2 Fresh water cooling pump bodies renewed due to corrosion.

*JK*



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Foundation



S.S. no 1 due 6.41 Now completed. On engine  
for C.P. O.T.S. due 7.15

Several pictures & covers viewed &  
*humis riparis*

It is submitted that  
this vessel is eligible for  
THE RECORD. + Luc. C. S. 1

Commenced 638

ABS 841

S. 841

Yrus

22.12.41