

'B'  
Now Tested  
Yes  
Yes  
-  
Yes  
Yes  
Yes  
Yes

Rpt. 9

Date of writing report 9th Nov., 1961  
Survey held at Tagama

Received London  
No. of visits 6

Port KOBE No. 9680  
First date 26th Oct. Last date 4th Nov., 1961

## REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 14527 ~~xxx~~ Name M.V. "HIYEHARU MARU"  
Owners Shinnihon Kisen K.K. Managers -  
Engines made Kob By Mitsubishi Heavy Ind. Reorg. Ltd. Type Oil Engine 2SA 10Cy. 720 x 1250mm  
No. of Main Engines 1 No. of Screws 1  
No. of Main Boilers W.P. -  
No. of Aux./Donkey Boilers 2WTAUXWP. 128 lbs  
Surveyed Afloat or in Dry Dock Both  
Nature of Survey CS, TS(CL), ABS & Repairs  
Was Damage Report issued? No Int. Cert.? Yes, BL-74253  
Last Report (For Head Office only) copy attached.

Records of Survey & Special Notations as per Register Book

Hull	Machinery
+100A1	+LMC
DTs - oil FP above 150° F. or veg. oil	Engine CS 9, 57
SS 9, 57	Boilers A 8, 59
DS 1, 61	Tailshaft CL 8, 59
	Steampipes 10, 60

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

DOCKING Propeller ~~xxx~~ Good Wear Down of Stern Bushes 2.0 mm Oil Glands None Sea Connections Good  
Fastenings Good Has Screwshaft been drawn? Yes Date of Examination 26-10-61 Has Shaft been changed? No  
Has Shaft now fitted been previously used? - Has Shaft now examined ~~xxx~~ a continuous liner? Yes Approved oil gland? -  
MAIN ENGINES ~~xxx~~ (I.C.) ~~xxx~~  
1 Cyls., Covers, Pistons ~~xxx~~ Nos. 6 & 9 Good  
2 Valves & Gears Nos. 6 & 9 Good  
3 Connecting Rods, Top Ends & Guides ~~xxx~~ Nos. 6 & 9 Good  
4 Crankpins & Bearings ~~xxx~~ Nos. 6 & 9 Good  
5 Journals & Bearings Nos. 5 & 10 Good  
MAIN ENGINE DRIVEN AIR COMPRESSORS  
6 Cyls., Covers, Pistons & Rods  
7 Connecting Rods & Top Ends  
8 Crankpins & Bearings  
9 Journals & Bearings  
10 Coolers & Safety Devices  
MAIN ENGINE DRIVEN SCAVENGE PUMPS  
11 Cyls., Covers, Pistons & Rods Nos. 6, 8 & 9 Good  
12 Connecting Rods & Top Ends  
13 Crankpins & Bearings  
14 Journals & Bearings Nos. 6, 8 & 9 Good  
15 Levers  
16 SCAVENGE BLOWERS  
17 SUPERCHARGERS  
MAIN TURBINES  
18 Casings, Rotors, Blading, Bearings & Thrusts  
19 EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)  
20 STEAM COMPRESSORS  
21 CLUTCHES & HYDRAULIC COUPLINGS  
22 REDUCTION GEARING  
23 THRUST BLOCKS, SHAFTS & BEARINGS Good  
24 INTERMEDIATE SHAFTS & BEARINGS No. 1 shaft and bearings (Nos. 1 & 2) Good  
25 HOLDING DOWN BOLTS & CHOCKS Good  
26 CONDENSERS (MAIN & AUX.)  
27 STEAM RE-HEATERS  
28 DE-SUPERHEATERS  
29 STOP & MANOEUVRING VALVES  
30 MAIN ENGINE DRIVEN PUMPS  
31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES Good Have Main Engines been tested working and manoeuvring? Yes

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this ship so far as now seen is in an efficient condition and that in the case of this vessel the following survey records be made in the Supplement to the Register Book CS 11, 61, TS (CL) 10, 61 and ABS 11, 61 and that her Machinery Classification Record be continued in the Book

Date of Committee FRIDAY - 5 JAN 1962  
Decision CSM 11, 61  
TS 10, 61 ABS 11, 61

Engine Surveyor to Lloyd's Register of Shipping  
M. Hayashibara



32 Essential Independent Pumps (Identify by position) Aft feed water pump(port side), Port use sea water circulating pump(port side), Inboard F.O.burning pump(port side), Inboard F.O. booster pump (port side), Fw'd sea water cooling pump(starb'd), G.S.pump(starb'd side), Inboard L.O.pump(starb'd side), Inboard & outboard fuel valve cooling pump(starb'd side), Bilge pump (starb'd side), F.O.transfer pump (port side) All Good

33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls Good

34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? Yes

35 Fresh Water Coolers 36 Lub. Oil Coolers Good 37 Heaters (state service) M.E. O.F.heater, Boiler oil heater, Purifier F.O. & L.O.heaters, Feed water heater(tested) All Good

38 Independent Air Compressors, Coolers & Safety Devices Starboard Good, Emergency air compressor with engine (Good)

39 Air Receiver & Safety devices—Main Forward Good 40 Auxiliary Good

41 Oil Fuel Tanks (Not forming part of hull structure) 3-settling, 3-service and 2-boiler oil settling tanks Good

42 Evaporator Good 43 Have Evaporator Safety Valves been tested under steam? Yes

44 Steering Machinery 45 Windlass Good 46 Fire Extinguishing Arrangements Good

AUXILIARY ENGINES (Identify by position)

Port generator engine Good  
Fan engine (port side) Good

Outboard - 260 Kw dx  
Kohler  
9/2/62

ELECTRICAL EQUIPMENT

PROPULSION	PORT	STARBOARD	AUXILIARY EQUIPMENT
a Generators			l Generators & Governors 2 x 325 KVA, 1 x 125KVA Good
b Exciters			m Motors Good
c Air Coolers			n Switchboards & Fittings Good
d Motors			o Circuit Breakers Good
e Air Coolers			p Cables Good
f Control Gear, Cables, etc.			q Insulation Resistance Good
g Insulation Resistance			r Steering Gear Generators and Motors Good
h Insulating Oil Test			s Navigation Light Indicators Good
i Overspeed Governors			
j Magnetic Couplings			
k Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN AUXILIARY, ~~DOUBLED CROSS~~ Port and Starboard forward in E.R.  
27-10-61 Good

Superheaters Good

Safety Valves Good

Mountings, Doors & Fastenings Good

Safety Valves Adjusted to { Sat. 128 lbs/in2  
Spt. -

Boiler Securing Arrangements Good

Main Economisers Exhaust Gas Heated Economisers

Steam Heated Steam Generators Steam Generator Safety Valves Adjusted to

Were Oil Burning System & Remote Controls examined working in accordance with Rules? Yes, Good Forced Circulating Pumps

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel Good

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Auxiliary (over 3 in. bore)

Were Copper Pipes annealed? Have Saturated Pipes in cylindrical boiler smoke boxes been tested?

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

Repairs due to wear and tear:- Stern bush found worn, now lower half bearing re-wooded.  
M.E. No.6 crosshead lower half bearing/whitemetal found crack, now replaced with spare.  
Feed water heater tubes found leak, all tubes now renewed.

The tubes were tested hydraulically and found good.



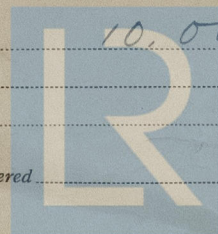
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Survey fees CS  
ABS 30,000.-  
TS(CW) 10,500.-  
Elect. 52,500.-

Damage fee ...

Expenses ...

Date when A/c rendered



Lloyd's Register  
Foundation