

19 FEB 1960

Rpt. 9

Date of writing report 13th Jan., 1960.

Received London

Port KOBE

No. 7421

Survey held at Mukaishima

No. of visits 4

First date 29th Dec. a.y.

Last date 8th Jan., 1960.

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 14342 S.S. "HIKOSAN MARU" Gross tons 6363 Date of build 11, 1951
Owners Nakano Kisen K.K. Managers - Port of Registry Tokyo
Engines made Tok By Ishikawajima Jyukogyo Type 2 steam turbines DR geared to sc. shaft
No. of Main Engines 1 No. of Screws 1
No. of Main Boilers 2WTB W.P. 285 lbs Spt
No. of Aux./Donkey Boilers - W.P. -
Surveyed Afloat or in Dry Dock Both
Nature of Survey Comp. ES, TS(CL), MBS & SPS
Was Damage Report issued? - Int. Cert. Yes, BL-61715 copy attached.
Last Report (For Head Office only)

Records of Survey & Special Notations as per Register Book

Hull	Machinery
-100A1	+LMC
carrying oil fuel FP above 150°F.	Engine 12,55
in DTs	Boiler M 1,59
SS 12,55	Tail shaft CL 12,56N
DS 1,59	Steam pipe 12,55

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 Good Wear Down of Stern Bushes Close fit Re-wooded Oil Glands No Sea Connections Good
Fastenings Good Has Screwshaft been drawn? Yes Date of Examination 5-1-60 Has Shaft been changed? No
Has Shaft now fitted been previously used? - Has Shaft now examined/fitted a continuous liner? Yes Approved oil gland? -
~~MAINTENANCE~~ (Recd. Steam ~~MAINTENANCE~~) ~~PORT X~~
1 Cyls., Covers, Pistons & Rods
2 Valves & Gears
3 Connecting Rods, Top Ends & Guides Side
4 Crankpins & Bearings Side
5 Journals & Bearings Centre
~~MAINTENANCE~~ ~~PORT X~~
6 Cyls., Covers, Pistons & Rods
7 Connecting Rods & Top Ends
8 Crankpins & Bearings
9 Journals & Bearings
10 Coolers & Safety Devices
~~MAINTENANCE~~ ~~PORT X~~
11 Cyls., Covers, Pistons & Rods
12 Connecting Rods & Top Ends
13 Crankpins & Bearings
14 Journals & Bearings
15 Levers
16 ~~MAINTENANCE~~ ~~PORT X~~
17 ~~MAINTENANCE~~ ~~PORT X~~
MAIN TURBINES
18 Casings, Rotors, Blading, Bearings & Thrusts HP & LP All Good
19 ~~MAINTENANCE~~ ~~PORT X~~
20 ~~MAINTENANCE~~ ~~PORT X~~
21 ~~MAINTENANCE~~ ~~PORT X~~
22 REDUCTION GEARING All Good
23 THRUST BLOCKS, SHAFTS & BEARINGS All Good
24 INTERMEDIATE SHAFTS & BEARINGS All Good
25 HOLDING DOWN BOLTS & CHOCKS Both (tested) Good
26 CONDENSERS (MAIN & AUX.)
27 ~~MAINTENANCE~~ ~~PORT X~~
28 ~~MAINTENANCE~~ ~~PORT X~~
29 STOP & MANOEUVRING VALVES Good
30 MAIN ENGINE DRIVEN PUMPS Bilge & sanitary pump Good
31 ~~MAINTENANCE~~ ~~PORT X~~
Have Main Engines been tested working and manoeuvring? Yes, Good

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 ES 1,59, MBS 1,60, TS(CL) 1,60 and SPS 1,60 and that her Machinery Classification Record be continued in the Book.

THURSDAY 10 MAR 1960

Date of Committee

Decision

ES 1,60

TS 1,60, MBS 1,60, SPS 1,60

40m,3,58 T. (MADE AND PRINTED IN ENGLAND.)

Noted for Header

Engine Surveyor to Lloyd's Register of Shipping
S. Hashiguchi

008773-008777-0025

If certificate is required state where to be sent

32 Essential Independent Pumps (Identify by position) All evaporator pumps(3-port fwd, centre & aft), Motor driven F.O. burning pump (p.s.), Steam driven F.O.burning pump(p.s.), Outb'd L.O.pump(s.s.), Outb'd feed pump(p.s.), Inb'd condensate pump(p.s.), Main circulating pump(p.s.), F.O.transfer pump(s. in BR), Spare F.O.transfer pump(s.in ER), Fwd & aft aux.feed pumps(p.s.), Bilge pump(p.s.), Ballast pump(p.s.), 33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls G.S.pump(p.s.) All Good Good 34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? Yes, Good 35 Feed Water Coolers Both (tested) 36 Lub. Oil Coolers Good 37 Heaters (state service) Both feed heaters(tested)&Both F.O. heaters(tested) Good 38 Independent Air Compressors & Dryers & Safety Devices 39 Air Compressors & Dryers & Safety Devices 40 Auxiliary P. & S. F.O. settling tanks (17 tons each) Good 41 Oil Fuel Tanks (Not forming part of hull structure) Yes, Good 42 Evaporators Outb'd Good 43 Have Evaporator Safety Valves been tested under steam? Yes, Good 44 Steering Machinery Good 45 Windlass Good 46 Fire Extinguishing Arrangements Good

AUXILIARY ENGINES (Identify by position) Starb'd outboard turbo generator engines Good Starb'd aux. (recipro) generator engine Good P. & S. forced draft fans Good

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

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

MAIN P. & S. Good 30-12-59

AUXILIARY, DONKEY or PRESS

Superheaters Good
Safety Valves Good
Mountings, Doors & Fastenings Good
Safety Valves Adjusted to Sat. 287 lbs
Spt. 282 lbs
Boiler Securing Arrangements Good

~~Main Propeller~~
~~Starboard Propeller~~

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

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Tested W.P. x 2 (steel) Good Auxiliary (over 3 in. bore) Tested W.P. x 2 (steel) Good

Were Copper Pipes annealed?

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)

Repair due to wear and tear:-

Tail shaft drawn and found to be free from defects.

Stern bushed bottom half renewed.

Port Boiler:- All pre-heater tubes renewed due to badly corrosion and leaking with spare.

Independent bilge pump's water cylinder renewed due to badly corrosion.

Marks as follows: LLOYD'S TEST KOB W.T.P. 4 KG SH LR 5-1-59

M.E. driven bilge pump valve box renewed due to corrosion.

Marks as follows: LLOYD'S TEST KOB W.T.P. 4 KG SH LR 5-1-59

Other minor repairs effected.

S.R.L. No.172:- E.S. 1,59 on completion.

The Engine Special Survey was completed at this time as stated above.

LEAVE THIS SPACE BLANK

Survey fees

Camp ES 68,000-
MBS 28,000-
TS(CW) 10,500-
Elect. 45,000-

Damage fee

Expenses

Date when A/c rendered

FEB-9 1960

Lloyd's Register
Foundation