

- 7. DEC. 1961

Rpt. 18

Date of writing Report 9th Nov., 1961 Received London Port KOBE No. RMC-9691
Survey held at Taguma, Japan No. of Visits 4 First Date 26th Oct., 1961 Last Date 2nd Nov., 1961

REPORT ON REFRIGERATED CARGO INSTALLATION SURVEYS

No. in R.B. 14527 Name of Ship M. V. "HIYEHARU MARU"
Class notation as shown in Register Book or as amended in Supplement +LLOYD'S RMC RS 7,60, SRMC 10,57

Total capacity of refrigerated cargo space 7,048 cu.ft. Total No. of independently refrigerated chambers 4
Last Report No. (to be filled in at Head Office) 11468 Port S.F.O.

A (state whether Intermediate, Biennial, Running and/or Special Survey) Running and Special Survey has now been held in accordance with the Requirements of the Rules. The items examined are detailed on the back of the Report; all were found or placed in good order unless otherwise stated.

PARTICULARS OF DEFECTS AND REPAIRS, ALTERATIONS ETC. (The reason for repairs must be stated)

None

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

Has an Interim Certificate been placed on board and a copy forwarded herewith? Yes, R.S. cases. Has the Survey Book on board been filled in and signed by the Surveyor? Yes

RECOMMENDATION AS TO CLASS. C.RMC-74252 copy attached.
Where special conditions of class are imposed, amended or deleted, they must be stated here and on the interim certificate. State clearly what alterations to the particulars in the Register Book are necessary consequent upon this Survey

Recommend this installation remain as classed with fresh recordSof +LLOYD'S RMC RS 11,61, SRMC 11,61 to maintain temp. 1°F. with sea temp. 90°F. max.

Date of Committee TUESDAY 19 DEC 1961

Minute

10m,4,59 T. (MADE AND PRINTED IN ENGLAND)

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Surveyor to Lloyd's Register of Shipping.
M. Hayashibara
Lloyd's Register Foundation
004004-009007-0138

DETAILS OF SURVEY NOW HELD

The surveys are to be carried out in accordance with the relevant requirements of Chapter N of the Rules. The items enumerated below do not quote the Rules in full. The chambers examined are to be clearly identified by position. The different components (machines, condensers, cooling pumps, etc.) of the plant are to be identified by the relative position of the other similar components, and not solely by numbers. The items examined and found or placed in good condition are to be described as "good"; where repairs are considered necessary but have not been carried out the item is to be marked thus "+" and the defect and action recommended described under "Particulars of defects and repairs."

1 Machinery under working conditions	1 Good
2 Log book	2 Good
3 Cargo chambers; including (where applicable) tank and tunnel top insulation tested, air ducts, air cooler casings, insulation linings etc., test holes, where made, effectively closed, floor coverings, insulated hatch covers or hatch plugs and supports, doors and their frames, air refreshing closing appliances, bilge and manhole plugs, thermometers, thermometer tubes, their connections and fastenings, bilges, suction pipes, suction roses, sounding pipes, scuppers and scupper non-return valves, cooling grids, air cooler coils, cooler trays and fans. (State which chambers. See notes above.)	3 Port fw'd and aft Good Starboard fw'd and aft Good
4 Brine or water cooling grids and/or coils tested (state pressure)	4 40 lbs/in2
5 Insulation of brine or other refrigerant piping outside chambers	5 Good
6 Electric motors control gear and cables and their insulation resistance measured	6 Good
7 Generating plant supplying electric power (generally examined)	7 Good
8 Primary refrigerant gas and liquid pipes, separators, receivers, driers, filters, condenser and evaporator coil terminals or pressure shells and other pressure parts externally	8 Good
9 Refrigerating plant spare gear	9 Good
10 Thermometers tested for accuracy	10 Good
11 Tubes and tubeplates of "shell-and-tube" type gas condensers. (State which ones. See notes above.)	11 Fw'd Good
12 Refrigerating machines opened up. (State which ones. See note above.)	12 Fw'd Good
13 Steam or I.C. engines driving refrigerating machinery opened up. (State which ones. See notes above.)	13
14 Steam condensers (exclusive to refrigerating plant). (State which ones, and if tested.)	14
15 Gas condenser cooling pumps opened up. (State which ones. See notes above.)	15 Fw'd Good
16 Brine circulating pumps opened up. (State which ones. See notes above.)	16 Fw'd Good
17 Steam jet vacuum refrigerating plants providing chamber cooling medium (state which ones) including flash chambers and water spray arrangements, thermo compressor steam chambers and nozzles, condensers (state if tested), cooled water circulating pumps, condenser cooling water pumps, condensate extraction pumps, and air pumps or ejectors	17
18 Air compressors (exclusive to machinery driving refrigerating plant) opened up, and air receivers for same. (If tested state pressure)	18
19 Pressure relief devices throughout refrigerating plant	19 Good
20 Steam jet vacuum refrigerating plant for sub-cooling primary refrigerant liquid (state which ones), including flash chambers and water spray arrangements, thermo compressor steam chambers and nozzles, condensers (state if tested), cooled water circulating pumps (where applicable), condenser cooling water pumps, condensate extraction pumps, and air pumps or ejectors	20
21 Insulation stripped from pipes carrying refrigerating medium (state at which point). (Where the pipes are exposed to atmospheric conditions state whether the seal has been made good.)	21 Fw'd gas compressor recess Good (Compressor to brine cooler)
22 Insulation, insulation linings, grounds, hangers and fixtures supporting insulation, grids, meat rails, etc., on overhead and vertical surfaces with sufficient air trunking and insulation and lining stripped. (State in which chambers, where, and also whether the seal of the air trunks and insulation lining has been made good.)	22 Port fw'd chamber Good (Forward top corner)
23 Insulation, grounds and inner insulation lining of tank tops, with sufficient insulation and lining stripped. (State in which holds and where.)	23
24 Coils of "coil-in-casing" type gas condensers (state whether coils drawn or examined through openings in casings) tested. (State which ones and pressure.)	24
25 Coils of "coil-in-casing" type evaporators (brine coolers), (state whether coils drawn or examined through openings in casings) tested. (State which ones and pressure.)	25
26 Gas condensers "shell-and-tube" type with end covers removed tested. (State which ones and pressure.)	26 Fw'd 400 lbs/in2 Good
27 Gas evaporators (brine coolers) of "shell-and-tube" type with end covers removed tested. (State which ones and pressure.)	27 Inboard 300 lbs/in2 Good
28 Primary refrigerant liquid sub-cooling heat exchangers of "shell-and-tube" or "double pipe" type tested. (State pressure.)	28 400 lbs/in2 Good
29 Other types of heat exchangers for sub-cooling liquid refrigerant using brine or water tested. (Give particulars and pressure.)	29
30 Primary refrigerant liquid sub-cooling coils tested. (State which ones and pressure.)	30
31 Primary refrigerant chamber grids or air cooler coils tested. (State pressure. If not all state which.)	31
32 Sea connections opened up	32 Good
33 Steam pipes over 3 inches bore tested. (Six-year intervals.)	33

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Survey Fee

Travelling expenses (if chargeable) £

Date when Account rendered

SRMC
KRS

£ 32.70

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Lloyd's Register
Foundation

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