

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office

JUN 26 1939

Date of writing Report 5/6/1939 When handed in at Local Office 5/6/1939 Port of YOKOHAMA

No. in Reg. Book. Survey held at YOKOHAMA Date: First Survey 20th May, Last Survey 1st June 1939
on the Refrigerating Machinery and Appliances of the T.S.S. "HARUNA MARU" (No. of Visits Two)

Tons { Gross 10421 Vessel built at Nagasaki By whom Mitsubishi Zosen K.K. When 1922
Net 6311 Owners Nippon Yusen K.K. Port Tokyo Voyage
Last Survey No. 4443 Port Shi

PARTICULARS AS ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	POWER.		INSULATED CARGO CHAMBERS.		Notation and Date of Last Complete Periodical Survey.
No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours.	No.	Capacity.	
2	2	Carb Anhy	J & E Hall, Ltd	1922	Brine Slab Cork	X	Tons 12	3	Cubic ft. 8,320	Lloyd's RMC 1-39

Particulars of Examination and Repairs for Complete Periodical Survey or Modified Survey.

Has the machinery been examined under working conditions Yes before or after the refrigerated cargo was discharged X
Density of brine 45° by Twaddle hydrometer. TEMPERATURES of air at the snow box and of the return air X & X
or, delivery and return air at direct expansion or brine cooled batteries X & X, outflow and return brine -9° & -4°
atmosphere 90°F, cooling water inlet and discharge 50° & 54°, gas in condensers and evaporators 65° & -19°

AVERAGE TEMPERATURE in each refrigerated chamber, as per log, before discharging commenced
Provision chamber only frosted to 12°F

Port Aug. 1938.

Condenser Coils, date of last test Stard Jan. 1939, If machinery is electrically driven, date of last examination of a generator X (Steam)
Have all the working parts of the refrigerating machines and of the auxiliary machinery been examined Yes Is the spare gear in accordance with the Rules Yes
Have the gas condenser and evaporator coils, or only the coil terminals, been examined Yes Have the direct expansion or brine cooled battery coils been examined X
Have the refrigerating liquid pipes, separators and receivers, and the gas return pipes been examined externally as far as practicable X
Has the insulation been examined throughout the cargo chambers Yes Where charcoal, silicate-cotton, granulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness and dryness Yes Have the test holes been efficiently closed Yes
Have all bilge hatches and manhole plugs been removed, the bilges cleared, and the suction pipes, suction roses, sounding pipes and manhole door fastenings been examined X
Have the hatches, air trunkways and thermometer tubes with their connections and fastenings been examined Yes Have the watertight doors been examined and worked X
Have the brine pipes or direct expansion pipes been examined Yes, under what conditions unfrosted Have the sea injection valves been opened and examined X

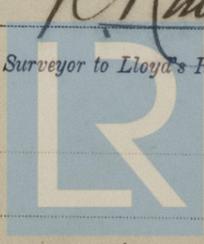
If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete.
Work done:- Starboard refrigerating machine opened up, compressor cylinder, piston, cover and valves, steam cylinder, piston, cover and slide valves, rods, crank shafting, examined and brine circulating pumps examined and all found in order.
Port machine compressor opened up, cylinder, cover & valves examined and found in order.
The insulation, brine piping, thermometer tubes, and fittings throughout whole cargo spaces examined and found in order.
The refrigerating machinery and its auxiliaries examined under working condition and found in good order.

General observations, opinion, and recommendation The refrigerating machinery and insulation (NOTE:-A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)
this vessel are in good condition and eligible in my opinion to remain as classed with fresh record of LLOYD'S RMC 6-39,
For H. D. Buchanan

Fee £ 60.00 : Fee applied for, 2nd June, 19 39
Travelling Expenses £ 2.60 : Received by me, 19

Committee's Minute FRI 14 JUL 1939
Assigned to Lloyd's Rmb. 6. 39

H. Buchanan
Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation
009116 - 009121 - 0274

CERTIFICATE OF SURVEY
The machinery and appliances of the vessel named above have been examined and found to be in good order and fit for service.
This Certificate is valid for the period of 12 months from the date of the survey.
The Registrar of Shipping, London.

It is submitted that
this vessel is eligible for
THE RECORD.

+ Lloyd's No 639

Part Survey

DT

12/17/29

Detach back Repts



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