

Report of Survey on Refrigerating Machinery & Appliances before loading.

(Received at London Office)

FEB 22 1939

Date of writing Report Jan. 26 1939 When handed in at Local Office 10 Port of SHANGHAI

No. in Reg. Book. 75686 Survey held at SHANGHAI Date: First Survey and Last Survey Jan. 26 1939
(No. of Visits one)

on the Refrigerating Machinery and Appliances of the Twin Screw Steamer "HARUNA MARU"

Tons { Gross 10421 Vessel built at Nagasaki By whom Mitsubishi Zosen Kaisha When 1922 2
Net 6311 Owners Nippon Yusen K.K. Port Tokio Voyage

Last Survey No. 6591 Port Yokohama

PARTICULARS AS ENTERED IN REGISTER BOOK.

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

Particulars of Examination and Repairs for Loading Port Survey.

Has the insulation been examined throughout and found to be clean and in good order at this time Yes

Has the insulation been tested for fullness and dryness Yes Have the test holes been efficiently closed Yes

If the insulation was not examined now for condition, where was this requirement carried out -

Was a certificate produced for that examination - By whom was it issued -

Have the watertight doors been examined and worked - Have the snow boxes and air trunkways and fastenings been examined -

Have the machinery and auxiliaries been examined and tested under working conditions at this time Yes On the BRINE refrigerator & cargo chambers Yes

Have the condenser and refrigerator coil terminals and connections been examined Yes

Have the brine pipes, valves and connections been examined Yes

Have the thermometer tubes with their connections and fastenings been examined Yes

Are sufficient cargo battens supplied and are they in good order Yes

State the temperatures to which the compartments were reduced before loading.

Port Chamber	was reduced to	<u>8° F.</u>	was reduced to	
Centre "	"	<u>8° F.</u>	"	
Starboard "	"	<u>10° F.</u>	"	

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

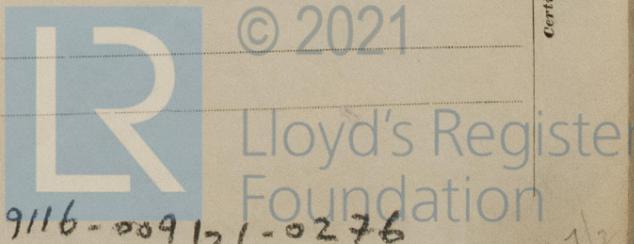
Now Done: Examined the refrigerating machinery under working conditions, and Chambers Port, Centre & Starboard under conditions mentioned above.
All found in good condition.

General observations, opinion, and recommendation This vessel, in my opinion, is fit to carry refrigerated cargo during the contemplated voyage to Europe.

Fee £125:00 : Fee applied for, 26th January, 1939
Travelling Expenses £ 5:00 : Received by me, 19

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

Committee's Minute FRI. 17 MAR 1939
Assigned See Ka 6591



009116-009121-0276

Certificate to be sent to

