

Report of Survey on Refrigerating Machinery & Appliances before loading.

(Received at London Office)

MAR 6 1940

Date of writing Report Nov. 14 1939 When handed in at Local Office 1939 Port of SHANGHAI

No. in Reg. Book. 25725 Survey held at SHANGHAI Date: First Survey and Last Survey Nov. 11 1939
(No. of Visits one)

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

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

st Survey No. 6790 Port Yka

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. 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 SlabCork</u>	<u>-</u>	<u>12</u>	<u>3</u>	<u>8,320</u>	<u>Lloyd's RMC 10-39</u>

Particulars of Examination and Repairs for Loading Port Survey.

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

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

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

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

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

the machinery and auxiliaries been examined and tested under working conditions at this time Yes On the snow box, refrigerator of cargo chambers Yes

the condenser and refrigerator coil terminals and connections been examined Yes

the brine pipes, valves and connections been examined Yes

the thermometer tubes with their connections and fastenings been examined Yes

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	10°F	was reduced to
Centre "	"	8°F	"
Starboard "	"	11°F	"
"	"		"

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 £ 4 . 4 : 0 Fee applied for, 11th November, 1939

Travelling Expenses £ : 4 : 0 Received by me, 19

Committee's Minute FRI 8 MAR 1940

Assigned As now

Robert Tailor
Surveyor to Lloyd's Register of Shipping.



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It is submitted that the
vessel's REFRIGERATING
INSTALLATION is eligible
for removal in transit.

A thermometer tube to be
dealt with on return to

Japan
W.A.
6/3/40
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