

Report of Survey on Refrigerating Machinery & Appliances before loading.

(Received at London Office

JUN 24 1940

Date of writing Report **Apr. 16** 19 **40** When handed in at Local Office **19** Port of **SHANGHAI**

No. in Reg. Book **25725** Survey held at **SHANGHAI** Date: First Survey and Last Survey **Apr. 14 1940**
(No. of Visits **one**)

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

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

Last Survey No. Port

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.	
2	2	Carb. Anhy.	J. & E. Hall, Ltd.	1922	Brine SlabCork	-	12	3	8,320	Lloyd's RMC 4-40

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 air trunkways and fastenings been examined -

Have the machinery and auxiliaries been examined and tested under working conditions at this time **Yes** On the 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.

Centre Chamber	was reduced to	3° F	was reduced to	
Starboard "	"	7° F	"	
"	"	"	"	
"	"	"	"	

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
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, **15th April, 19 40.**
Travelling Expenses £ : **4** : **0** } Received by me, **19** .
Sunday fee £ **2** : **2** }
Committee's Minute **JUL 9 1940**

Assigned **As now**
He

De Maestlande
Surveyor to Lloyd's Register of Shipping.



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009116 - 009121 - 0262

Certificate to be sent to

It is submitted that
Bessel's REFRIGERATION
INSTALLATION is eligible
to remain as classed.

RM
8/7/40



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