

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office

DEC - 2 1940

Date of writing Report 21st Oct. 1940. When handed in at Local Office 21st Oct. 1940. Port of YOKOHAMA

No. in Reg. Book. Survey held at YOKOHAMA

Date: First Survey 20th Sept. Last Survey 12th Oct. 1940.

(No. of Visits Two)

in the Refrigerating Machinery and Appliances of the T.Y.S.C. S.S. "HARUNA MARU"

Gross 10421 Vessel built at Nagasaki

By whom Mitsubishi Zosen K. Id. When 1922-2

Net 6311 Owners Nippon Yusen K.K.

Port Tokyo

Voyage X

Last Survey No. 4657 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. Tons.	No.	Capacity.	
2	2	Carb Anhy	J & E Hall Id.	1922	Brine SlabCork	X	12	3	8,320	Lloyd's RMC 10-39 4.40

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

as the machinery been examined under working conditions Yes before or after the refrigerated cargo was discharged X

density of brine 45 by Tw. hydrometer. TEMPERATURES of air at the snow box and of the return air X & X

delivery and return air at direct expansion or brine cooled batteries X & X, outflow and return brine 60°F & 10°F

mosphere 75°F, cooling water inlet and discharge 70°F & 74°F, gas in condensers and evaporators 85°F & -4°F

AVERAGE TEMPERATURE in each refrigerated chamber, as per log, before discharging commenced

Provision chambers frosted P 13°F
C 14°F
S 14°F

Condenser Coils, date of last test P 8-39 S. 1-39 If machinery is electrically driven, date of last examination of a generator X

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

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

the refrigerating liquid pipes, separators and receivers, and the gas return pipes been examined externally as far as practicable

the insulation been examined throughout the cargo chambers Where checked, checked X

ulated 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

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

the hatches, X and thermometer tubes with their connections and fastenings been examined Yes Have the watertight doors been examined and worked X

the brine pipes of X been examined Yes, under what conditions unfrosted Have the sea injection valves been opened and examined Yes

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

done:- Port refrigerating machine and auxiliaries opened up completely examined and found in order.

Starboard machine compressor, cylinder, cover and valves examined.

The insulation, brine piping, thermometer tubes and connection, throughout examined and found or now placed in good order.

The refrigerating machinery and appliances examined under working conditions and found in order.

First done:- Thermometer tubes in Port, centre and starboard chambers renewed by steel tubes of 3 inches dia and that of centre chamber shifted to port side where the tube will not pass through the provision chamber on upper tween deck.

Starboard compressor cylinder bored and piston and packing rings renewed.

Guide shoe centre line adjusted.

General observations, opinion, and recommendation The Refrigerating machinery and Appliances of

A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)

vessel are in good condition and eligible in my opinion to remain as classed with fresh record

Lloyd's R M C 10-40.

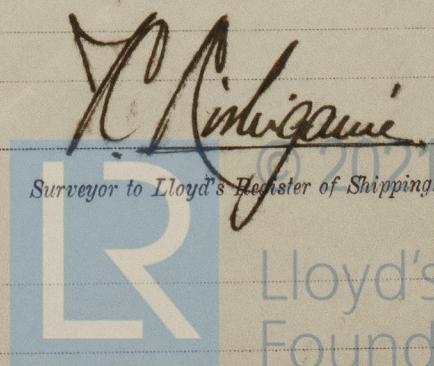
Fee £ 60.00 : Fee applied for, 19th October, 1940.

Travelling Expenses £ 2.00 : Received by me, 29th Oct. 1940.

Committee's Minute

Assigned + Lloyd's Rmb. 10.40

Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

009116 - 009121 - 0258

It is submitted that
this vessel is eligible for
THE RECORD. *Thames River 1840*

Part Survey

GA
4/12/40



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