

# REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office MAY -1 1939)

Date of writing Report 10/4/1939. When handed in at Local Office 10/4/1939. Port of YOKOHAMA

No. in g. Book. Survey held at YOKOHAMA Date: First Survey 28-3-39 Last Survey 7th Apr. 1939 (No. of Visits Two)

the Refrigerating Machinery and Appliances of the T.S.S. "HAKOZAKI MARU"

Gross 10413 Vessel built at Nagasaki By whom Mitsubishi Zosen Kaisha Ltd When 1922-6  
Net 6310 Owners Nippon Yusen K.K. Port Tokyo Voyage

Last Survey No. 546 Port Lon

## 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 SlabCork	x	Tons 12	3	Cubic ft. 8,240	Lloyd's RMC 11-38

## 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°F by Twd. 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 & , outflow and return brine -22°F & -12°F  
 atmosphere 65°F, cooling water inlet and discharge 56°F & 60°F, gas in condensers and evaporators 71°F & -32°F

AVERAGE TEMPERATURE in each refrigerated chamber, as per log, before discharging commenced  
 Provision chamber only frosted 10.5°F.

Condenser Coils, date of last test Starbd. Nov. 1938. If machinery is electrically driven, date of last examination of a generator X

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

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.  
 Now done:- Port side refrigerating machinery and its auxiliaries throughout examined and Port condenser coils removed and tested in the shop under hydraulic pressure 2500 lbs per sq. in and found tight, afterwards fitted in good order.

Starboard refrigerating machine compressor cylinder, cover and valves, examined and found in order.

The insulation, brine piping and thermometer tubes with fittings throughout cargo spaces examined and found or now placed in good order.

Afterwards the refrigerating machinery and appliances examined under working condition and found in order.

Repairs due to wear:- Starboard chamber ceiling insulation renewed all over.  
Upper part of shell side insulation renewed for full length of chamber.  
2 aft section of overhead brine pipes in this chamber renewed and tested by hydraulic pressure to twice the working pressure.

General observations, opinion, and recommendation The Insulation Refrigerating machinery and appliances of this vessel are in good condition and eligible in my opinion to remain as classed with fresh record of LLOYD'S RMC 4-39.

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

Fee ..... £ 60.00 : { Fee applied for, 11th April, 1939.  
 Travelling Expenses £ 2.00 : { Received by me, 19 .....

*M. Kishigami*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 12 MAY 1939  
 Assigned note pt Survey + Lloyd's Rmc 4, 39  
note Postgas condenser coils

It is submitted that  
this vessel is eligible for  
THE RECORD. + Lloyd's RMC 4.39.

↓ Note full survey  
also full-gas condenser  
coils letted 4.39. ↓

J.C.  
VIII/5/38

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