

# REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office)

Date of writing Report 6.1.1942 When handed in at Local Office 7.1.1942 Port of Quil.  
 No. in Reg. Book 2704 Survey held at Quil. Date: First Survey 17.12.41 Last Survey 24.12.1941  
 on the Refrigerating Machinery and Appliances of the S.S. "CALUMET" (No. of Visits 5)

Gross 7268 Tons Vessel built at Cheybank. By whom J. Brown & Co. Ltd. When 1923-3.  
 Net 4462 Tons Owners Shirley-Compton Lines Ltd. Port London. Voyage ✓  
 Last Survey No. 2704 Port C. TN.

### 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.	
<u>2.</u>	<u>2.</u>	<u>CARA LIVERPOOL</u>	<u>ANNY REFRIGERATION CO. LTD.</u>	<u>1934.</u>	<u>AIR COOL.</u>	<u>✓</u>	<u>Tons 50</u>	<u>2.</u>	<u>55,400</u>	<u>Lloyd's RMC 12-40</u> <u>(FIR TEMP. 25°F)</u>

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

Has the machinery been examined under working conditions NO. before or after the refrigerated cargo was discharged All chambers empty.  
 Density of brine ✓ by ✓ hydrometer. TEMPERATURES of the return air ✓ & ✓  
 or, delivery and return air at direct expansion or brine cooled batteries ✓ & ✓, outflow and return brine ✓ & ✓  
 atmosphere ✓, cooling water inlet and discharge ✓ & ✓, gas in condensers and evaporators ✓ & ✓  
 Do the log entries show that the plant was efficient during the last voyage with Refrigerated Cargo The Log entries show that no refrigerated cargo has been carried in the insulated chambers nor the refrigerating machinery operated under working conditions since the completion of the last Complete Periodical Survey in 12-40. The Bureau representative stated that whereas the Bureau desire to retain the Refrigerating Machinery in class then appears little likelihood of the machinery being used for cargo until after the termination of hostilities.  
 Condenser Coils, date of last test ✓ If machinery is electrically driven, date of last examination of a generator ✓  
 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 ✓ Have the direct expansion or brine cooled battery coils been examined Yes.  
 Have the refrigerating liquid pipes, separators and receivers, and the gas return pipes been examined externally as far as practicable Yes.  
 Has the insulation been examined throughout the cargo chambers Yes. Has it been tested for dryness Yes. Where charcoal, silicate cotton, granulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness 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 Yes.  
 Have the hatches, air trunkways and thermometer tubes with their connections and fastenings been examined Yes Have the watertight doors been examined and worked ✓  
 Have the brine pipes or direct expansion pipes been examined ✓, under what conditions ✓ Have the sea injection valves been opened and examined ✓  
 If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done To complete the Complete Periodical Survey the Refrigerating Machinery requires to be examined under full working conditions. No arrangements have as yet been made by the Bureau for this to be done.

HOW DONE. An examination made of the CO<sub>2</sub> compressors cylinders, valves, steam cylinders, piston & valve rods, main bearings, crosshead & main frames, crankshaft, air pump & drive, condenser coils & coil terminals, separator coil terminals, brine cooled battery coils & brine connections, both brine pumps & the circulation pump. All found in good condition. An examination also made of the insulation of all refrigerated spaces & the same tested for fullness & dryness. Bilge hatches & manhole plugs lifted for examination & bilges cleaned. All found in good order.

### General observations, opinion, and recommendation

(NOTE:—A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)  
 The Refrigerating Machinery of this vessel is in good condition & eligible in my opinion to remain as classed with full record of LLOYDS R.M.C. 12-41 Subject  
 to the Refrigerating Machinery being examined under working conditions. A.R. London.

Fee applied for, 13 JAN 1942 19  
 Received by me, 19  
 Travelling Expenses £  
 Committee's Minute FRI. 23 JAN 1942  
 Assigned + Lloyd's Rule 12.41  
For Temp. 25°F Subject



NOTE:—The words which do not apply should be deleted.

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It is submitted that  
vessel is eligible for  
RECORD.

Thames River 1841

In 25<sup>th</sup> 7.

Subject to the Machinery  
being examined under  
working conditions

DA

20/1/42

A Cert should have  
been applied for  
at once on  
completion of  
the survey in accordance  
with the usual  
practice in these  
cases

DA



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