

Report of Survey on Refrigerating Machinery & Appliances.

Date of writing Report 24-5-51 When handed in at Local Office 6-6-51 Received at London Office 22-5-51
 Port of GENOA
 No. in Reg. Book: 53776 Survey held at GENOA Date: First Survey 19-4-51 Last Survey 17-5-51 No. of Visits 11
 on the Refrigerating Machinery and Appliances of the TRIPLE SC. STEAMER BRASIL NOW HOMELAND.
 Gross 10,043 Tons Vessel built at GLASGOW By whom A. STEPHEN & SONS LD When 1905-4
 Net 5789 Owners MEDITERRANEAN LINES INC. Port PANAMA Voyage NEW YORK-BREMEN-HAMBURG.
 Last Survey No. _____ Port _____

PARTICULARS ^{To Be} 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>3/2</u>	<u>CO² - 2</u>	<u>CARB. ANHY.</u>	<u>HASLAM FRYCK-ENG. Co. Ltd</u>	<u>1905</u>	<u>1/2 BRINE</u>	<u>✓</u>	<u>✓</u>			<u>Lloyd's</u>
<u>2</u>	<u>FREON - 2</u>	<u>DICHLORO-DIFLUORO</u>	<u>FRICK CO. WAYNESBORO PA. U.S.A</u>	<u>1947</u>	<u>3/4 CHARCOAL</u>	<u>✓</u>	<u>FREON - 15</u>	<u>4</u>	<u>10,290</u>	<u>RMC</u>

CLASSIFICATION

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 CARRIED YES
 Density of brine 30° by BAUME hydrometer. TEMPERATURES of the return air ✓ & ✓
 or, delivery and return air at direct expansion or brine cooled batteries ✓ & ✓, outflow and return brine -14°C & -12°C
 atmosphere 25°C, cooling water inlet and discharge 16°C & 18°C, gas in condensers and evaporators 31°C & -15°C
 Do the log entries show that the plant was efficient during the last voyage with refrigerated cargo No CARGO CARRIED
 Condenser Coils, date of last test 2-5-51 If machinery is electrically driven, date of last examination of a generator engine and 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 YES Have the direct expansion or brine cooled battery coils been examined ✓
 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 ✓
 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 YES, under what conditions DEFROSTED Have the sea injection valves been opened and examined YES
 Have fan motors, if any, been constructed under survey and Test Certificates furnished ✓
 If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done COMPLETE.

Now done for Classification:-

CO² Plant, compressors together with the steam driving engine examined in their entirety the scuffings of the crankshaft checked and all parts found or now placed in good condition, the condenser coils removed from their casing, heat ashore to Workshop, cleaned and tested hydraulically to 200 Pps/cm² with satisfactory results, casing scraped and coated with Apexion. Evaporator coils withdrawn from their casing, cleaned and examined and tested hydraulically to 200 Pps/cm² with satisfactory results. The steam driven brine pump and the electrically driven brine pump opened up and examined in their entirety and found or now placed in good condition. The Bilge, Ballast and Sanitary pumps supplying circulating water to the CO² condensers have been opened up and examined in their entirety and all found or now placed in good condition (also in connection with the special survey on machinery now held).

General observations, opinion, and recommendation The Refrigerating Machinery and Appliances

(NOTE - A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)
of this vessel, so far as now seen, are in good and efficient condition and eligible in my opinion to have the notation LLOYD'S RMC 5.51 (see Report 117 attached).

Fee applied for ✓ 19
 Received by me ✓ 19
 Surveyor to Lloyd's Register of Shipping, H. F. Mansfield.
 Travelling Expenses SEE Rpt. 17 No. 18253
 Date TUES. 14 AUG 1951
 Committee's Minute Deferred
 Home (H)



Certificate to be sent to

Work done for classification:- Freon Plant:- Compressors opened up and examined in their entirety, scantlings of compressor crankshafts checked, the compressor steam driving engines opened up and examined in their entirety and the scantlings of the steam engine crankshafts checked and all parts found or now placed in good condition. End covers removed from Freon condensers and tested to 300 lbs/0" with satisfactory results. Freon evaporators opened up, tube nests withdrawn, examined and tested to 300 lbs/0" with satisfactory results.

Salt water circulating pump opened up and examined in its entirety and all parts found or now placed in good order.

Brine pipes from Eng Room to Tween deck chambers forward examined and complete brine system tested hydraulically to 3 Kgs/cm², the brine leads from engine room to the chambers forward completely re-insulated at this time.

Insulation throughout the cargo chamber (4 in Tween deck forward) examined and tested for dryness and fullness, the scantlings of the grounds, battens, inner and outer linings and the thickness of insulating material checked and found as stated on Rpt 17. Drainage arrangements examined and found in order.

Thermometer tubes examined, 2 in aft chambers renewed, and all found or now placed in good order.

All thermometers and gauges calibrated and checked and found or now placed in good order.

On completion of the Survey the machinery and appliances were examined under working conditions and a satisfactory cooling down test carried out.

H. F. Mansfield.