

# Report of Survey on Refrigerating Machinery & Appliances.

Received at London Office 18 JUL 1947

Date of writing Report 10th July 1947 When handed in at Local Office 15-7-47 Port of LONDON  
 No. in Reg. Book 86505 Survey held at LONDON Date: First Survey 8-5-47 Last Survey 10th JULY 1947  
 on the Refrigerating Machinery and Appliances of the M.V. "PACUARE" (EX. EMPIRE ALDE) No. of Visits 7  
 Gross 3264 Tons Vessel built at BREMEN By whom VULCAN VEGESACK When 1934  
 Net 1933 Owners ELDERS and FYFFES LTD. Port Voyage  
 Last Survey No. Port

E 23133 Jan

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## 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.  Lloyd's RMC
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	4	CARB. ANHY.	ATLAS WERKE A.G.	1935	BRINE & AIR "ALFOL" and "TORFOLEUM"		65 3/4	3	157,025	

## Particulars of Examination and Repairs <sup>to</sup> Complete ~~Periodical~~ <sup>Classification</sup> Survey or Modified Survey.

Has the machinery been examined under working conditions YES before or after the refrigerated cargo was discharged  
 Density of brine 50 by TWADDLE hydrometer. TEMPERATURES of the return air 6°F & 20°F  
 or, delivery and return air at direct expansion or brine cooled batteries & outflow and return brine 7° & 16°  
 atmosphere 58°F, cooling water inlet and discharge 69 & 72, gas in condensers and evaporators 98° & -9°  
 Do the log entries show that the plant was efficient during the last voyage with refrigerated cargo NO PREVIOUS LOG AVAILABLE  
 Condenser Coils, date of last test MARCH 1947 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 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 ✓ Has it been tested for dryness ✓ Where charcoal, silicate cotton, granulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness ✓ Have the test holes been efficiently closed ✓  
 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 ✓ Have the watertight doors been examined and worked ✓  
 Have the brine pipes ~~or direct expansion pipes~~ been examined YES, under what conditions FROSTED Have the sea injection valves been opened and examined YES

If the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete  
how done:- Insulation for end of no. 3 Lower Tween Deck examined after past renewal and found satisfactory. Brine batteries and boiler fans installed as per attached plan. Refrigerating machinery and appliances tested under working conditions and cooling tests carried out in accordance with Rule requirements and found satisfactory. Evaporator tank tested satisfactorily to 30 lbs after minor welding repairs to seam leakage stated to have resulted from fire.

Temperatures at shut down of machinery.		Temperatures <del>at</del> after 12 hours.	
no. 1 Forecastle Deck	18.5°F	—	32.0°F
no. 1 Upper Tween Deck	18.5°F	—	27.0°F
no. 1 Lower Tween Deck	18.0°F	—	27.0°F
no. 1 Hold	20.0°F	—	29.0°F
no. 2 Upper Tween Deck	19.0°F	—	29.5°F
no. 2 Lower Tween Deck	18.0°F	—	26.0°F
no. 2 Hold	18.5°F	—	28.5°F
no. 3 Upper Tween Deck	20.5°F	—	34.0°F
no. 3 Lower Tween Deck	18.5°F	—	30.5°F

General observations, opinion, and recommendation The refrigerating machinery and appliances of this

(NOTE:—A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)  
vessel, as now examined, are in good order and eligible in my opinion to have record assigned of LLOYD'S RMC 7,47 as previously recommended (See HAMBURG Surveyors Report no. 408)

Fee (Completion) £ 10:0:0 Fee applied for 18 JUL 1947  
 Travelling Expenses £ : : Received by me 19 Surveyor to Lloyd's Register of Shipping.

Date FRI. 25 JUL 1947  
 Committee's Minute Lloyd's RMC. 747 for Temp 33°F  
 Surveyor Wm Robison  
 Signature Wm Robison

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

25-1-46. T. (MADE AND PRINTED IN ENGLAND.)



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