

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES

(Received at London Office)

Date of writing Report September 22nd 45 When handed in at Local Office Port of Malta

No. in Reg. Book. 19942 Survey held at Malta Date: First Survey 12/9/45 Last Survey 22/9/45 19 4 (No. of Visits)

on the Refrigerating Machinery and Appliances of the S. S. BALTEAKO

Tons { Gross 1328 Vessel built at Troon By whom Ailsa Shipbuilding Co. When 1920
Net 541 Owners United Baltic Corporation Port London Voyage

Last Survey No. 25248 Port Bny

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. Cubic ft.	
One	One	CO ₂	J. & E. Hall & Co	1935	1. Brine Grid system.			1	11610	Lloyd's
					2. Gran. Cork & sil Cotton			2	17785	+ RMC
								3 & 4	19100	1/1/45
								10	49639	

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 After discharge. Log book figures taken for Before discharge

Density of brine 45 ozs per gal. by Twadley's hydrometer. TEMPERATURES of the return air & outflow and return brine 10°F. & 12°F.

or, delivery and return air at direct expansion or brine cooled batteries & atmosphere 85°F, cooling water inlet and discharge 64°F & 70°F, gas in condensers and evaporators 86°F & -4°F

Do the log entries show that the plant was efficient during the last voyage with Refrigerated Cargo Yes.

Condenser Coils, date of last test No record 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 Externally

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 In drydock

Have the brine pipes or direct expansion pipes been examined Yes, under what conditions working Have the sea injection valves been opened and examined 8/9/45

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

After overhaul, the machine was examined under working conditions. There being no cargo on board, a test was made on the evaporator. After four hours run, the following results were obtained:-

<u>COOLING WATER</u>		<u>BRINE</u>	
Sea, <u>71°F</u> .	Discharge <u>83°F</u>	Condenser <u>95°F</u>	Evaporator <u>0°F</u>
		Starting T. <u>90°F</u>	Outlet <u>10°F</u> Return <u>11°F</u>
		Atmosphere, <u>85°F</u>	Density <u>46 ozs per gal.</u>

The brine pipes were examined in all holds under a working pressure of 25lbs per sq. in. and found in good condition.

CONDITION OF MACHINERY AS NOW SEEN.

ITEM
Refrigerator Engine.

CONDITION AND RECOMMENDATIONS
Piston rod found broken in piston nut, and piston rings slack. All other parts including, chamber bearings and crank shaft in good condition.
New piston rod to be made, and new piston rings to be fitted (carried out)

P. T. O.

General observations, opinion, and recommendation

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

Recommend that a new record of Lloyd's RMC, with date be made in the Register Book in the case of this vessel.

Fee £ 10 : 10 : - Fee applied for, A/c rendered from London 22 OCT 45 19

Travelling Expenses £ : : Reccived by me, 19

Committee's Minute TUES. 30 OCT 1945

Assigned + Lloyd's Rmc 9.45



Certificate to be sent to

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

MADE AND PRINTED IN GREAT BRITAIN

T. C. & T.

ITEM

CONDITION AND RECOMMENDATIONS

Compressor.

Examined and found in good condition.
No repairs necessary.

Brine Pump.

Opened up and found in good condition
except the following:- steam and water end rings slack.
Valve gear slack.

New piston and bucket rings to be fitted.
New pins and bushes to be fitted to valve gear.
(carried out)

Circulating Water Pump.

One water end rod found badly worn. Water
buckets slack in chambers, and suction and delivery valves
worn and broken.

One new water end rod to be made and fitted.
Two brass liners to be withdrawn from water chambers and
skinned up in lathe; new buckets to be made and fitted
to reconditioned water liners. Complete set of Kinghorn
suction and delivery valves to be made and fitted.

New pins and bushes to be fitted to valve
gear (carried out)

*It is submitted that this
vessel is eligible for THE
RECORD. + Lloyd's RMC 9.45.*

*R.P.
27/10/65.*