

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.

Survey held at Malta

Date: First Survey 12/9/45

Last Survey 22/9/45 19

(No. of Visits 4)

on the Refrigerating Machinery and Appliances of the

S. S. BALTEAKO

Tons { Gross 1328
Net 541

Vessel built at Troon

By whom Ailsa Shipbuilding Co.

When 1920

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	11616	Lloyd's
					2. Gran. Cork & sil Cotton			2	17786	+ RMC
								3 & 4	19108	1/1/45
								10	18498 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 &

or, delivery and return air at direct expansion or brine cooled batteries & , outflow and return brine **10°F.** & **12°F.**

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 **Externally 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 **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 8/9/45**

Have the brine pipes or direct expansion pipes been examined **Yes** , under what conditions **working** Have the sea injection valves been opened and examined **Complete**

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:-

COOLING WATER
Sea, 71°F. Discharge 83°F

BRINE
Condenser 95°F Evaporator 0°F Starting T. 90°F Outlet 10°F Return 11°F
Atmosphere, 85°F Density 46 ozs per gal.

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 £ : : :

Received by me,

19

Committee's Minute

TUES. 30 OCT 1945

Assigned

+ Lloyd's Rmc 9.45

Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

W300-0038

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
skipped 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.Y.
27/10/65.



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