

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office

22 4 SEP 1943

Date of writing Report 22-9-43.

When handed in at Local Office

19

Port of Bristol

No. in
Reg. Book.
31468

Survey held at Arromouth

Date: First Survey 6 Sept

Last Survey 18 Sept 1943

(No. of Visits)

on the Refrigerating Machinery and Appliances of the S.S. "Port Darwin"

Tons Gross 8063
Net 5077Vessel built at Belfast
Owners Port Line Ltd.

By whom Workman Clark & Co. Ltd. When 1918 1 mo.

Port London

Voyage —

Last Survey No. 29208. Port — BSB.

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.	
2	2	Barb. Arky	G. E. Hall Ltd	1917	Brine Cork & Silicate Cotton	—	75	9	351.772	Lloyd's RMC

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 Before

Density of brine 1.040 by Swaddles hydrometer. TEMPERATURES of the return air 6°F & 9°F

or, delivery and return air at direct expansion or brine cooled batteries — & —, outflow and return brine 80°F, 82°F & -17°F.

atmosphere 59°F, cooling water inlet and discharge 62°F & 68°F, gas in condensers and evaporators 80°F, 82°F & -17°F.

AVERAGE TEMPERATURE in each refrigerated chamber, as per log, before discharging commenced

No. 1. L.T.D. 10°F No. 1. Hold 12°F
No. 2. L.T.D. 10°F No. 2. Hold 10°F
No. 4. L.T.D. 10°F No. 3. Hold 10°F
Centre Breeze Room 8°F No. 4. Hold 10°F
Starboard Breeze Room 8°F

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 YesHave 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 YesHas the insulation been examined throughout the cargo chambers Yes Where charcoal, silicate cotton,granulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness and dryness Yes Have the test holes been efficiently closed YesHave 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 YesHave 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 Under pressure Have the sea injection valves been opened and examined YesIf the Survey is not complete, state what arrangements have been made for its completion and what remains to be done Complete

The refrigerating installation of this vessel was fitted in 1917 in accordance with the Rules & under the supervision of the Society's Surveyors and a Record of + Lloyd's RMC 11,17, was assigned. The Society's class was subsequently allowed to lapse and periodical surveys, approximating to those required by the Society were carried out by Messrs. William Expley, Son & Swainston. During this period No. 3. Hold was insulated, particulars of the insulation & fittings are given on the attached sheet.

The installation has now been surveyed for re-classification with the Society.

Now done:- Ascertained from the refrigerating machinery logs that the plant has been operating efficiently during voyages with refrigerated cargo.

Machinery examined under working conditions before discharge of cargo.

Refrigerating machinery examined complete, viz:- steam & compressor

General observations, opinion, and recommendation The refrigerating installation of

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

this vessel is in good condition & eligible in our opinion for the

notation + Lloyd's RMC 8,43

The particulars of the installation as given in the Register Book should be amended as indicated above.

Fee RMC £ 24 : 0 : 0

Fee applied for, 22 Sept 1943.

Travelling Expenses £ 4 : 6 : 10

Received by me,

Committee's Minute

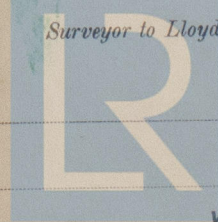
FRI 15 OCT 1943

Assigned

Note RMC
has been

R. Muntin & J. Brooke Smith

Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

W1021-0102/12

Certificate to be sent to Owners Office

should be deleted.

24 SEP 1943

Refrigerating Machinery & appliances of the S.S. "Port Darwin"
cylinders, pistons, rods, valves & crankshaft, condensers & evaporators as far as practicable, working parts of air brine & circulating pumps, separators, pipes & connections.

Spare gear examined & checked.

Brine pipes examined & tested to one and a half times the working pressure at the brine pumps. Hatch grids not tested.

Insulation throughout cargo chambers examined & tested for fullness & dryness.

Bilge & manhole plugs removed & examined.

Insulated hatches, thermometer tubes & connections examined
Minor repairs effected to insulation & machinery.

Particulars of No. 3. Hold.

Insulation Sides	10 1/2" granulated cork	1 1/4" T. & G. Lining
Overhead	10" granulated cork	3/4" + 1" T & G. Lining.
Fwd. Bhd.	4" granulated cork	1 1/4" T & G. Lining.
Aft. Bhd.	11 1/2" silicate cotton	1 1/4" T & G. Lining.
Tank Top	4" granulated cork	1" + 1 1/4" lining with elm sheathing in way of hatch.

Insulated hatch, ventilator, bilge & manhole plugs fitted.

Cooling System. Roof, side & end grids in 4 sections.

Drainage. Non-return liquid sealed bilge traps fitted.

Sounding pipes fitted as required by the Rules.

Thermometer tubes. Three fitted at each side of hold, midway between hatch & ships side.

NOTE:- The ice melting capacity of the machinery is 75 tons and not 110 tons as given in the Register Book.

R. M.

THE LLOYD'S REGISTER

+ Lloyd's Register 943

Obtain RB particulars as
indicated in red in
the report.

DA
12/04/43

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