

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

(Received at London Office

APR 5 1939

Date of writing Report 19 39 When handed in at Local Office 3: 4: 1939 Port of Glasgow

No. in Reg. Book. 82111 Survey held at Glasgow Date: First Survey 23rd Mar 39 Last Survey 1st April 1939
on the Refrigerating Machinery and Appliances of the Twin Sc S.S. "Raranga" (No. of Visits 3)

Tons { Gross 7956 Vessel built at Newcastle By whom Armstrong Whitworth & Co Ltd When 1916-12M
Net 5010 Owners Norfolk & N. American S.S. Co. Ltd Port Southampton Voyage Australia
Last Survey No. 68166 Port Glo

PARTICULARS AS ENTERED IN REGISTER BOOK.

| REFRIGERATING MACHINES. | | | | | POWER. | | INSULATED CARGO CHAMBERS. | | Notation and Date of Last Complete Periodical Survey. | |
|-------------------------|---------------------|-------------|--|-----------------------|---|---------------------------------------|--|-----------|---|--------------------------|
| No. of Units. | No. of Compressors. | System. | Makers. | Date of Construction. | (1) Refrigerating (2) Insulating the Chambers. | Cubic feet of air delivered per hour. | Ice melting capacity per 24 hours. Tons. | No. | | Capacity. Cubic ft. |
| <u>2</u> | <u>2</u> | <u>C.O2</u> | <u>Haslam Foundry & Eng. Co. Ltd</u> | <u>1916</u> | <u>Brine Sil. Cotton & Cork</u> | <u>✓</u> | <u>126</u> | <u>10</u> | <u>388055</u> | <u>+Lloyd's RMC 4-38</u> |

Particulars of Examination and Repairs for Complete Periodical Survey or Modified Survey.

Has the machinery been examined under working conditions No. before or after the refrigerated cargo was discharged

Density of brine by hydrometer. TEMPERATURES of the return air &

or, delivery and return air at direct expansion or brine cooled batteries & , outflow and return brine &

atmosphere , cooling water inlet and discharge & , gas in condensers and evaporators &

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

Condenser Coils, date of last test Oct 1935 If machinery is electrically driven, date of last examination of a generator Steam driven

Have all the working parts of the refrigerating machines and of the auxiliary machinery been examined Yes (as under) 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 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 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 ✓

Have the brine pipes ~~or direct expansion pipes~~ been examined Yes, under what conditions unfrosted 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

Now done
H.P. and L.P. Cylinders, pistons, valves and faces, crank shaft, main bearing and crank pin bushes, two compressors, rods, and valves examined also centre brine pump, circulating pump, Forward and after brine rooms, brine batteries, fans, electrical installation spare gear, all examined and found or put in good working condition.
Insulation and brine pipes examined throughout and found good.
Bilges, Bilge suction, plugs, and thermometer tubes examined and found good.
Please see Glasgow R.H.C. report No. 60298. October 1938.

NOTE Please see London letter 2nd Oct. 1938. The H.P. condenser coil has been blanked off. Glob leaving 12 sound coils, and found sound and efficient
3/4/39

General observations, opinion, and recommendation The refrigerating machinery and appliances of this vessel so far as now seen is in a safe working condition and eligible in my opinion to remain as classed and to have fresh record of + LLOYD'S R.H.C 4-39.
(NOTE:—A new Date of Survey should only be recommended in the case of a Complete Periodical Survey.)

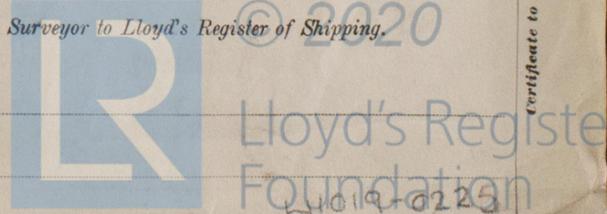
Fee Comp. R.H.C. £ 15: 0 : 0 } Fee applied for, 4- APR 1939 19

Travelling Expenses £ : : } Received by me, 15. 4. 39 19 EP/5.

Committee's Minute GLASGOW 4- APR 1939

Assigned -1- Lloyd's RMC 4.39

G. E. Murdoch
Surveyor to Lloyd's Register of Shipping.



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

Certificate to be sent to

Noted

Submitted the invoice be
asked what steps were
taken to ascertain that
the 12 coils were sound
& whether the owners
propose to renew
the defective coil
which has been
shut off.

diff! - 22/4

[Signature]
20/4/29

[Faint green stamp, possibly "RECEIVED"]