

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES.

JAN 18 1939

(Received at London Office)

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Port of

LIVERPOOL

No. in
Reg. Book
77788

Survey held at

Liverpool

Date: First Survey 30th Dec.

Last Survey 12 Jan 1939

(No. of Visits 3)

on the Refrigerating Machinery and Appliances of the T. S. CARINTHIA

Tons: Gross 20277 Vessel built at Barrow

By whom Vickers Ltd

When 1925, 8 mms

Net 12088 Owners Leonard White Star, Ltd.

Port Liverpool

Voyage New York

Last Survey No. 6740 Port

27 Jan

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.	
4	8	Carb. J. E. Hall, Ltd.	1925	Brine slap work.	✓	60	10	59,950	7.38	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 After
 Density of brine 47 by Twaddle hydrometer. TEMPERATURES of the return air ✓ & ✓
 or, delivery and return air at direct expansion or brine cooled batteries ✓ & ✓, outflow and return brine -4°F & 15°F.
 atmosphere, cooling water inlet and discharge 52° & 56°, gas in condensers and evaporators -4° & 67°

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

No. 1. Hold No. 1. Hold T.D. 34½° P 39° S 14°

No. 3. Hold No. 3. Hold T.D. 15° P 35° S 39°

No. 5. Hold. Port: U.T.D. 37° lower hold. 34° Starboard U.T.D. 35°F lower hold. 34°

REF. MACHINE
ELECTRICALLY DRIVEN
Port 1.37
Starboard 1.38Condenser Coils, date of last test ✓

If machinery is electrically driven, date of last examination of a generator

{ Port 1.39 (new)
Starboard 1.38.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 Yes

Where charcoal, silicate cotton,

granulated cork or similar media are employed for insulating purposes, has such insulation been examined for ✓ and dryness Yes 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 ✓ 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 discharge 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 Machinery examined under working conditions. Afterwards
 all the machines, together with the outboard brine pump & circ. pump forward, &
 the forward brine pump & circ. pump aft, opened out & working parts examined.
 The insulation & piping in all cargo chambers examined &
 found in good condition.

Repair: Some water grids & leads in No. 1 hold chamber renewed.
 Defective insulation (damaged by cargo etc) repaired in No. 5 upper & lower two decks
 No. 3 lower hold been insulation repaired.

The Port Elec. Generator now examined — see Machy. report.

General observations, opinion, and recommendation The Refrigerating machinery &
 appliances of this vessel as now seen, are in good & efficient
 condition, & eligible in my opinion to remain as classed, & to have
 fresh record of R.M.C. 1.39.

Fee R.M.C. £ 5 : 0 : 0

Fee applied for, 13 JAN 1939

Travelling Expenses £ :

Received by me, 1/3

Car Reed & W. H. Applestone

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL

17 JAN 1939

Assigned

+ Loyas R.M.C. 1.39.

CERTIFICATE WRITTEN



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Lloyd's Register
Foundation

REPORT OF SURVEY ON REGENERATING MACHINERY & APPARATUS

Survey conducted by the Surveyor General, Department of the Interior, Bureau of Reclamation, Washington, D.C., in cooperation with the Bureau of Mines, Department of the Interior, Washington, D.C., and the Bureau of Land Management, Department of the Interior, Washington, D.C., in the year 1939.

The purpose of this survey was to determine the extent of the problem of regenerating machinery and apparatus in the various fields of the Bureau of Reclamation, and to determine the methods of regenerating the same.

The survey was conducted in the following fields: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The results of the survey are as follows: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the methods of regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the results of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the conclusions of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the recommendations of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the suggestions of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the conclusions of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the recommendations of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

The following are the suggestions of the regenerating the machinery and apparatus in the various fields of the Bureau of Reclamation: (1) Surveying, (2) Engineering, (3) Construction, (4) Administration, (5) Education, (6) Research, (7) Extension, (8) Miscellaneous.

West
Port Generator 1.39
Noted
2/2/39
10/1/39