

B.C. SHIP

No. 24005

1

REPORT OF SURVEY ON REFRIGERATING MACHINERY & APPLIANCES

Date of writing Report 17th Nov. 1949When handed in at Local Office 22nd NOVEMBER 1949

(Received at London Office)

Port of GREENOCK

No. in Reg. Book. 09146

Survey held at PORT GLASGOW

Date: First Survey 27/5/49

Last Survey 11/11/1949

(No. of Visits 14)

on the Refrigerating Machinery and Appliances of the M.S. "FAIRFREE"

Gross 1241
Net 575

Vessel built at TORONTO, ONTARIO

By whom REEFERN CONSTRUCTION Co., LTD.

When JULY, 1944

Owners CHR. SALVESEN & Co.

Port LEITH

Voyage ✓

Last Survey No. ✓

Port ✓

PARTICULARS AS ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.

No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.	System of (1) Refrigerating (2) Insulating the Chambers.	POWER.		INSULATED CARGO CHAMBERS.		Notation and Date of Last Complete Periodical Survey.
						Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity. Cubic ft.	
2	5	1-NH ₃	T. & E. HALL LTD.	6/47	① BRINE CIRCS	✓	60.8	For Hold 19,350	19,350	Lloyd's RMC
		1-CH ₂ Cl	L. STEELE & CO.	6/46	② ONAZOTE					
								Air Hold 5,200		

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

Has the machinery been examined under working conditions YES-ON TEST before or after the refrigerated cargo was discharged AFTER

Density of brine 48°

by TWADDELL

hydrometer.

TEMPERATURES

of the return air

✓

& ✓

Delivery and return air at direct expansion or brine cooled batteries ✓

& ✓

outflow and return brine

-27°F

& -23°F

Atmosphere 44°F

cooling water inlet and discharge

50°F

& 55°F

gas in condensers and evaporators

74°F

& -30°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 8/7/49

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

14/7/49

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 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 YES

Has the insulation been examined throughout the cargo chambers YES

Has it been tested for dryness YES

Where charcoal, silicate cotton,

Insulated cork or similar media are employed for insulating purposes, has such insulation been examined for fullness ONAZOTE

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 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 FROSTED & UNDER HYDRAULIC TEST.

Have the sea injection valves been opened and examined

YES

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

COMPLETE.

Now Done.

HALL MACHINE (STEAM DRIVEN COMPRESSOR)

STEAM ENGINE - EXAMINED AND FOUND IN ORDER. ONE MAIN BEARING REMETALLED AND LOWER HALF OF ECCENTRIC STRAP BROKEN AND NOW RENEWED.
COMPRESSOR - EXAMINED AND FOUND IN ORDER. INTERSTAGE CONDENSER OVERHAULED AT MAKER'S WORKS - ONE NEW TUBE FITTED AND CONDENSER GAS TESTED TO 200 lbs/sq. in.

EVAPORATOR (MAIN)

EXAMINED AND FOUND IN ORDER. GAS (CO₂) TESTED TO 200 lbs/sq. in. 8/7/49.

CONDENSER.

EXAMINED AND FOUND IN ORDER. GAS (CO₂) TESTED TO 200 lbs/sq. in. 8/7/49.

GAS SEPARATOR.

IN ORDER.

BRINE CIRCULATING PUMPS (2, OFF. MOTOR DRIVEN)

EXAMINED AND FOUND IN ORDER. (2ND PUMP & MOTOR FITTED 11/49)

General observations, opinion, and recommendation

SEE GREENOCK FIRST ENTRY

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

REPORT NO. 24005.

Capacity.

Cubic ft.

19,350

5,200

m

5,200

m

5,200

m

5,200

m

5,200

m

5,200

m

5,200

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5,200

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m

5,200

L.F.E. REPORT.

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Fee applied for

19

Received by me

19

H. K. Taylor.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

7 DEC 1949

RMC 11.49

minus 5° F

with sea temperatures

subject

For frozen cargoes at

not exceeding 70°F

CERTIFICATE WRITTEN.

(17.1.50)

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Lloyd's Register Foundation

Certificates to be sent to CHR. SALVESEN & Co. LEITH.

Port of GREENOCK.Continuation of Report No. 24005. dated 17th NOVEMBER 1949. on the"FAIRFREE"STERNE UNIT.

COMPRESSOR (MOTOR DRIVEN) - NEW MOTOR FITTED.

" - EXAMINED AND FOUND IN ORDER.

EVAPORATOR - " " " " "] GAS TESTED TO
CONDENSER - " " " " "] 125 $lb\frac{1}{2}$ " 26/7/49.BRINE CIRCULATING PUMP (MOTOR DRIVEN) - EXAMINED AND FOUND IN
ORDER.FORWARD INSULATED HOLD.INSULATION AND BRINE GRIDS EXAMINED AND FOUND IN GOOD
CONDITION. PUMPING ARRANGEMENTS (BILGE) TO HOLD, TESTED
AND FOUND IN ORDER.H.K. Taylor.