

R. No. 1746
72107

Report on Refrigerating Machinery and Appliances.

Date of writing Report 13 MAY 1947 When handed in at Local Office 13 MAY 1947 Received at London Office 13 MAY 1947
No. in Reg. Book. Survey held at DARTFORD Port of LONDON
Date: First Survey 11-11-1946 Last Survey 9-5-47
(Number of Visits 23)

on the Refrigerating Machinery and Appliances of the _____ Tons {Gross
Vessel built at GOVAN By whom built HARLAND & WOLFF LTD Yard No. 13456 When built 1946 {Net
Owners FRENCH GOVERNMENT Port belonging to _____ Voyage _____
Refrigerating Machinery made by J.V.E. HALL LTD DARTFORD Machine Nos. _____ When made 1946
Insulation fitted by _____ When fitted _____ System of Refrigeration AMMONIA
Method of cooling Cargo Chambers BRINE & AIR Insulating Material used _____
Number of Cargo Chambers insulated 5 Total refrigerated cargo capacity 67,560 cubic feet

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed STARBOARD SIDE. LOWER DECK & E.R. MIDSHIPS

Refrigerating Units, No. of 3 No. of machines 3 Is each machine independent YES
Total refrigeration or ice-melting capacity in tons per 24 hours 51 Are all the units connected to all the refrigerated chambers YES
Compressors, driven direct or through VEE BELTS (5-1 1/2") reduction gearing. Compressors, single or double acting SINGLE If multiple effect compression NO
Are relief valves or safety discs fitted YES No. of cylinders to each unit 2 Diameter of cylinders 6"
Diameter of piston rod TRUNK PISTONS Length of stroke 6" No. of revolutions per minute 475 MAX
Motive Power supplied from _____
(State number of boilers, oil engines or electric generators supplying the motive power.)

Steam Engines, high pressure, compound, or triple expansion, surface condensing. No. of cylinders _____ Diameter _____
Length of stroke _____ Working pressure _____ Diameter of crank shaft journals and pins 3 5/8" JOURNALS - 3 1/4" PINS
Breadth and thickness of crank webs 3 3/8" x 4 1/8" OVAL No. of sections in crank shaft ONE Revolutions of engines per minute 475 MAX

Oil Engines, type _____ No. of cylinders _____ Diameter _____ Length of stroke _____ Span of bearings as per Rule _____
Maximum pressure in cylinders _____ Diameter of crank shaft journals and pins _____
Breadth and thickness of crank webs _____ No. of sections in crank shaft _____ Revolutions of engine per minute _____

Air Receivers:—Have they been made under survey _____ State No. of Report or Certificate _____
Is each receiver, which can be isolated, fitted with a safety valve as per Rule _____
Can the internal surfaces of the receivers be examined and cleaned _____ Is a drain fitted at the lowest part of each receiver _____

No. of Receivers _____ Cubic capacity of each _____ Internal diameter _____ thickness _____
Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

Electric Motors, type ENCLOSED VENTILATED No. of 3 Rated 42 BHP Kilowatts 220 Volts
at 1100 revolutions per minute. Diameter of motor shafts at bearings _____

Reduction Gearing ✓ Pitch circle diameter, pinion _____ Main wheel _____ Width of face _____
Distance between centres of pinion and wheel faces and the centre of the adjacent bearings, pinion _____ Main wheel _____
Pinion shafts, diameter at bearings _____ Main wheel shaft, diameter at bearings _____

Gas Condensers, No. of 3 Cast iron or steel casings STEEL Cylindrical or rectangular CYLINDRICAL Are safety valves fitted _____
to casings. No _____ No. of tubes in each casing 14 Material of coils STEEL Can each coil be readily shut off or disconnected NO
(SAFETY DISCS ON M/C) TUBES CASING TUBE

Water Circulating Pumps, No. and size of pumps available 2-4" CENTE how worked ELECTRICALLY Gas Separators, No. of 3-DELIVERY 1-SUCTION
Gas Evaporators, No. of 2 Cast iron or steel casings STEEL Pressure or gravity type PRESSURE If pressure type, are safety valves fitted YES
TUBES No. of coils in each casing 14 Material of coils STEEL Can each coil be readily shut off or disconnected NO

Direct Expansion or Brine Cooled Batteries, No. of 2 Are there two separate systems, so that one may be in use while the other is being cleared of snow NO
No. of coils in each battery 6 Material of coils STEEL Can each coil be readily shut off or disconnected YES
Total cooling surface of battery coils 2640 SQ. FT. Is a watertight tray fitted under each battery YES

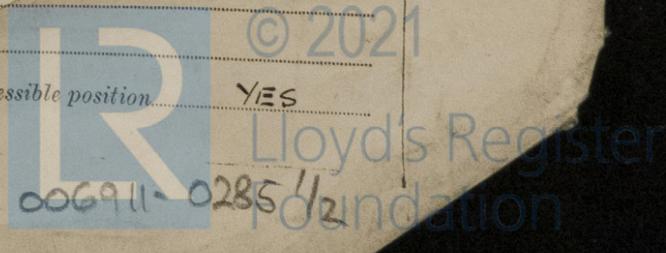
Air Circulating Fans, Total No. of 2-37 1/2" each of 17,500 cubic feet capacity, at 1400 MAX revolutions per minute
2-17 1/2" each of 3,500 revolutions per minute
Steam or electrically driven ELECTRICALLY Where spare fans are supplied are these fitted in position ready for coupling up NO

Brine Circulating Pumps, No. and size of, including the additional pump 2-2" CENTRIFUGAL how worked ELECTRICALLY
Brine Cooling System, closed or open CLOSED Are the pipes and tanks galvanised on the inside NO
No. of brine sections in each chamber GRIDS
3 - No 6 MT DK
3 - No 6 LT DK

Can each section be readily shut off or disconnected YES Are the control valves situated in an easily accessible position YES

NOTE.—THE WORDS WHICH DO NOT APPLY SHOULD BE DELETED.

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Sounding Pipes, No. and position in each chamber situated below the load water line.....

Diameter..... Are all sounding pipes in way of insulated chambers fitted in accordance with Section 3, Clause 11.....

Are all wood linings tongued and grooved..... Are cement facings reinforced with expanded steel lattice.....

How is the expanded metal secured in place.....

How are the cork slabs secured to the steel structure of the vessel.....

Air Trunkways in Chambers. Are the arrangements satisfactory and in accordance with the approved plans.....

Are they permanently fixed or collapsible, or portable.....

Where air trunkways pass through watertight bulkheads, are they fitted with watertight doors..... Are the door frames efficiently insulated.....

Are insulated plugs supplied for the doorways..... Where are the doors worked from.....

Cooling Pipes in Chambers, diameter..... Minimum thickness..... Are they galvanised externally.....

How are they arranged in the chambers.....

Thawing Off, what provision is made for removing the snow from the cooling pipes in the chambers.....

The foregoing is a correct description of the Insulation and Appliances.

Builders.

Plans. Are approved Plans or Specifications forwarded herewith for the Refrigerating Machinery..... and Insulation.....
(If not, state date of approval)

Is the Refrigerating Machinery and Appliances duplicate of a previous case..... If so, state name of vessel.....

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

General Remarks (State quality of workmanship, opinions as to class, &c.).....

The refrigerating machinery has been constructed under special survey and the materials and workmanship are good. In my opinion the refrigerating machinery and appliances of this vessel will be eligible for the notation + Lloyd's RMC (with date) when the installation and testing have been satisfactorily completed.

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	Ice melting capacity per 24 hours. Tons.	Is Refrigerating Machinery Electrically Driven?	INSULATED CARGO CHAMBERS.	
No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.				No.	Capacity. Cubic ft.
3	6	AMMONIA	J.E. HALL LTD DARTFORD	1946	(1) BRINE & AIR	51	YES	5	1250

Low MC £8.13.4
GLS MC £17.6.8
Fee £26: 0: 0 (Fee applied for, 19.....
Travelling Expenses £ : : (Received by me, 19.....

R. J. Dunn
Surveyor to Lloyd's Register.

Committee's Minute.....

Assigned.....

See GLS 72107



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Foundation

Certificate to be sent to