

Are thermometers fitted to the outflow and to each return brine pipe ^{Common} Yes. Where the tanks are closed are they ventilated as per Rule Yes.
 Where the tanks are not closed is the compartment in which they are situated efficiently ventilated. ✓
 Are the number and capacity of the machines and the number of pumps and sea connections in accordance with Section 2, Clause 1 of the Rules. Yes
 Is the exhaust steam led to the main and auxiliary condensers. ✓

HYDRAULIC AND OTHER TESTS.

DESCRIPTION.	Date of Test.	Working Pressure.	Hydraulic Test Pressure	Air Test Pressure.	Stamped.	REMARKS.
		lbs sq in	lbs sq in	lbs sq in		
Engine Cylinders (if tested)						
Gas Compressors	31-3-48	1000	3000 ✓	1500 ✓	EMS	
Separators	16-4-48	1000	3000 ✓	1500 ✓	EMS	
Multiple Effect Receivers	✓	not fitted				
Condenser Coils	Stock listed 17-9-48	1000	3000 ✓	1500 ✓	EMS	
Evaporator Coils	20-9-48	1000	3000 ✓	1500 ✓	EMS	
Condenser Headers and Connections	19-4-48	1000	3000 ✓	1500 ✓	EMS	
Condenser Casings	26-4-48	10/15	30 ✓	-	EMS	
Evaporator Casings	1-10-48	10/15	30 ✓	-	EMS	
NH ₃ Condenser, Evaporator and Air Cooler Coils after erection in place	✓	✓	✓	✓	✓	
Brine Piping after erection in place.	18.1.49	25 lbs/p	50 lbs/p ✓	✓	✓	

Have important steel castings and forgings been tested in accordance with the Rules ✓
Cooling Test. Has the refrigerating machinery been examined under full working conditions, and found satisfactory. ✓
 Dates of test _____ Density of Brine _____ hydrometer
Temperatures (when the cargo chambers are cooled down to the required temperatures) of delivery and return air at direct expansion or brine cooled batteries _____, outflow and return brine _____ & _____ atmosphere _____ cooling water _____ and discharge _____ gas in condensers _____ and evaporators. _____ the average temperature of the refrigerated chambers _____ and the rise of temperature in these chambers upon the expiration of _____ hours time after the machinery and cooling appliances have been shut off.

SPARE GEAR.

Are the working parts of the machines, pumps and motors respectively, interchangeable. Yes ✓
 Has the spare gear required by the Rules been supplied. Yes ✓

Additional Spare Gear Supplied:-
 12 lub piston leathers 1-1/8" CO₂ valve 3 spare pipes for do.
 12 " gland " 1 reg^{air} valve spindle complete 12 safety discs
 1 set of 2 leather moulds 2 main bearing bolts & nuts
 2 springs water relief valve 2 conn rod beyond do
 2 do Brine do 2 xhead do 1 CO₂ gauge
 2 do CO₂ safety do 1 hand pump for pressure lub 12 thermos
 1 special NPI thermo 1 separator drain fitting 2 pro CO₂ pipe flanges
 1 box spare parts.
 For pumps, each size.
 1 spindle & impeller 1 set brushes for do

Electrical spares
 1 Armature packed for storage } for each size
 1 Field coil } 1 motor
 1 Interpole coil } 1 spare fan motor

The foregoing is a correct description of the Refrigerating Machinery.

J. & E. HALL, LTD.
 J. Wells
 Manufacturer.

DESCRIPTION OF INSULATION.

	IN LOWER HOLD CHAMBERS.					IN 'TWEEN DECK CHAMBERS.				
	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of ditto.	Inner Lining.
BULKHEADS.										
Frame No. (Fore Peak)	A									
Frame No.	F									
Frame No.	A									
Frame No.	F									
Frame No. (Boiler Room)	A									
Frame No. (Engine Room)	A									
Frame No.	F									
Frame No.	A									
Frame No.	F									
Frame No.	A									
Frame No. (After Peak)	F									
Sides										
Overheading										
Floors of Chambers										
Trunk Hatchways										
Thrust Recess, Sides and Top										
Tunnel Sides and Top										
Tunnel Recess, Front and Top										
Frames or Reverse Frames, Face										
Bulkhead Stiffeners, Top					Bottom					and Face
Ribband on Top of Decks										
Side Stringers, Top					Bottom					and Face
Web Frames, Sides										and Face
Brackets, Top					Bottom					and Face
Insulated Hatches, Main					Bilge					Manhole
Hatchway Coamings, Main					Bilge					
Hold Pillars										
Masts					Ventilators					
Are insulated plugs fitted to provide easy access to bilge suction roses tank, air, and sounding pipes heels of pillars and manhole doors of tanks. Are insulated plugs fitted to ventilators cargo ports and side lights.										
Is the insulation of the lower hold floor and tunnel top in way of the hatchways protected if so, how.										
Oil Storage Tanks, where adjacent to the insulated chambers, state what provision has been made for ventilating the air space between the insulation and the bulkhead plating.										
and for draining the tank top.										
Fireproof Insulation. Is the insulation and woodwork fireproof in way of bunkers or any surfaces exposed to excessive heat. Where										
Cooling Pipes pass through watertight bulkheads or deck plating, are the fittings and packing of the stuffing boxes both watertight and fireproof.										
Cargo Battens, Dimensions and spacing, sides floors tunnel top										
fixed or portable. Are screens fitted over the brine grids at chamber sides. hinged or permanently fixed										
Thermometer Tubes, No. and position in each chamber.										
diameter. are they fitted in accordance with Section 3, Clause 8.										
Protection of Pipes. Are all pipes, including air and sounding pipes, which pass through or into insulated chambers, well insulated.										
Draining Arrangements. What provision is made for draining the inside of the chambers.										
Where sluices, scupper pipes, and drain pipes are fitted are means provided for blanking them off.										
What provision is made for draining the refrigerating machinery room.										
brine return room fan room water circulating pump room.										
Are all air spaces behind insulation arranged to drain to the bilges, bilge wells, or gutterways of the respective chambers.										

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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..... 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.

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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. *Yes* If so, state name of vessel. *Vickers Armaments N° 103*
 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 and appliances of this vessel have been constructed under Special Survey in conformity with the Society's Rules, regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans. The materials and workmanship are good.

In my opinion the refrigerating machinery and appliances of this vessel will be eligible for the notation +LLOYDS RMC (with date) when the installation and listing have been satisfactorily completed, and the spare gear verified.

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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.
2	4	Carl Anby	J & E Hall	1948	Brine. Air	87.8	Yes	7	96310

Fee *Low N° 115* *N° 130* £45: 0:0 Fee applied for, 19.....
 Travelling Expenses £ : : Received by me, 19.....
 Surveyor to Lloyd's Register.

Committee's Minute **FEB 25 FEB 1949**

Assigned *See minute on*
NWC. 105923



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 Foundation

Certificate to be sent to