

Are thermometers fitted to the outflow and to each return brine pipe _____ Where the tanks are closed are they ventilated as per Rule _____
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 _____
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.
ENGINE CYLINDERS (IF TESTED)						
GAS COMPRESSORS						
SEPARATORS						
MULTIPLE EFFECT RECEIVERS						
CONDENSER COILS						
EVAPORATOR COILS						
CONDENSER HEADERS AND CONNECTIONS						
CONDENSER CASINGS						
EVAPORATOR CASINGS						
NH ₃ CONDENSER, EVAPORATOR AND AIR COOLER COILS AFTER ERECTION IN PLACE						
BRINE PIPING AFTER ERECTION IN PLACE						

Have important steel castings and forgings been tested in accordance with the Rules **YES**
Cooling Test. Has the refrigerating machinery been examined under full working conditions, and found satisfactory **YES**.
Dates of test **23RD & 24TH SEPT 43**. Density of Brine **45°** by **TWADDELL** hydrometer
Temperatures (when the cargo chambers are cooled down to the required test temperatures) of delivery and return air at ~~direct expansion~~ brine cooled batteries
NO DELIVERY AIR THERMRS. RETURN AIR 7.5° F. & _____, outflow and return brine **-1° F & 3° F**,
atmosphere **58° F** cooling water inlet and discharge **53° F & 58° F** gas in condensers **78° F** and evaporators **-2° F**
the average temperature of the refrigerated chambers **7° F** and the rise of temperature in these chambers upon the expiration of **12** hours
time after the machinery and cooling appliances have been shut off **6 1/2° F.**

SPARE GEAR.

Are the working parts of the machines, pumps and motors respectively, interchangeable _____

Has the spare gear required by the Rules been supplied _____

Additional Spare Gear Supplied: _____

The foregoing is a correct description of the Refrigerating Machinery.

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.
FRAME No. (Fore Peak) A										
FRAME No. F										
FRAME No. 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. F										
FRAME No. A										
FRAME No. F										
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 _____

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.) _____

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.

Fee £ : : { Fee applied for, 19 .
Travelling Expenses £ : : { Received by me, 19 .

Surveyor to Lloyd's Register.

Committee's Minute

TUES. 5 OCT 1943

Assigned

see minute
on H. R. Rpt.



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Lloyd's Register
Foundation

Certificate to be sent to