

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)		<i>alm</i>	<i>alm</i>	<i>alm</i>		
GAS COMPRESSORS <i>scale 4.5</i>	30-10-41	70	210	105	No 5547	Lloyd's test $\frac{H}{A}$ $\frac{210}{105}$ atm 4.30-10-41
" SEPARATORS	30-10-41	70	210	105		Lloyd's test $\frac{H}{A}$ $\frac{210}{105}$ atm 4.30-10-41
" MULTIPLE EFFECT RECEIVERS						
" CONDENSER COILS						
" EVAPORATOR COILS <i>work main</i>		70	210	105		Lloyd's test $\frac{H}{A}$ $\frac{210}{105}$ atm 4.28-11-41
" CONDENSER HEADERS AND CONNECTIONS						
" CONDENSER CASINGS	12-12-41	0.5	1.1			Lloyd's test 1.1 atm 4.12-12-41
SUBCOOLERS						
" EVAPORATOR CASINGS	20-2-42	70	210	105	R $\frac{H}{A}$ $\frac{210}{105}$	atm 4.20-2-42
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

Dates of test **Density of Brine** by hydrometer

Temperatures (when the cargo chambers are cooled down to the required test temperatures)

or, delivery and return air at direct expansion or brine cooled batteries & outflow and return brine &
atmosphere cooling water inlet 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

Has the spare gear required by the Rules been supplied

Additional Spare Gear Supplied:

as per specification.

The foregoing is a correct description of the Refrigerating Machinery.

THOMAS SABROE & CO.
Manufacturers.

DESCRIPTION OF INSULATION.

IN LOWER HOLD CHAMBERS.						IN 'TWEEN DECK CHAMBERS.					
BULKHEADS.		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									
		A									
	FRAME NO.	F									
		A									
	FRAME NO.	F									
		A									
	FRAME NO. (Boiler Room)	F									
		A									
	FRAME NO. (Engine Room)	A									
		F									
	FRAME NO.	A									
		F									
	FRAME NO.	A									
	F										
FRAME NO.	A										
	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

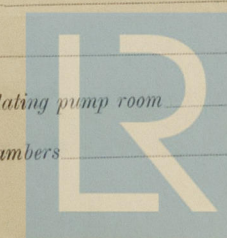
Draining Arrangements. What provision is made for draining the inside of the chambers

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



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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 parts herein described have been constructed under Special Survey and in accordance with the Society's Rules, the approved plans and specifications.

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	Ice melting capacity per 24 hours.	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	carb anhyd. Co	W. H. Jones & Sons	1942	1 Brine	Tons. 74 1/2	yes.		

Fee £~~2~~ 400 : - { Fee applied for, 27. 2. 1942.
 Travelling Expenses £~~2~~ : 45 : - { Received by me, 19 ..

William Hays
Surveyor to Lloyd's Register.

Committee's Minute

Assigned

see minute on
mus. H. Ruc Rpt. 2153

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