

Common
 Are thermometers fitted to the outlet and to each return brine pipe *yes* 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 *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.
ENGINE CYLINDERS (IF TESTED)	9-6-42					
GAS COMPRESSORS	12-6-42	185 lb. □"	600 lb. □"	350 lb. □"	OK	
SEPARATORS	15-5-42	"	500 lb. □"	300 lb. □"	OK	
CRANKCASES	28-4-42					
MULTIPLE EFFECT RECEIVERS	12-5-42	32 lb. □"	300 lb. □"	175 lb. □"	OK	
CONDENSER COILS	22-5-42					
CONDENSER COILS	2-6-42	185 lb. □"	1500 lb. □"	500 lb. □"	OK	
EVAPORATOR COILS	9-6-42	do.	do.	do.	OK	
EVAPORATOR COILS	16-6-42	do.	do.	do.	OK	
CONDENSER HEADERS AND CONNECTIONS	9-6-42	do.	do.	do.	OK	
CONDENSER HEADERS AND CONNECTIONS	23-6-42	do.	do.	do.	OK	
CONDENSER CASINGS	23-6-42	10-15 lb. □"	30 lb. □"	✓	OK	
EVAPORATOR CASINGS	26-6-42	do.	do.	✓	OK	
NH ₃ CONDENSER, EVAPORATOR AND AIR COOLER COILS AFTER ERECTION IN PLACE	30-6-42					
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) of delivery and return air at direct expansion or brine cooled batteries
 & outflow and return brine &
 atm sphere 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 *yes*
 Has the spare gear required by the Rules been supplied *yes*

Additional Spare Gear Supplied: Main bearings for 1 Compr., 1 Compr. cyls cover.
 3 sets gland packing, 2 oil sight glasses, 2 drip feed sight glasses, 1/2 doz. Safety discs
 1 NH₃ gauge, 1 crankshaft, 1 set Vee belts, 1 gauge valve, 1 set compr joints
 2 sets other NH₃ joints, 2 springs for water relief valve, 2 springs for brine relief valve, hydrometer
 2 brine return thermos, 1 plunger for forced lubr pump, 2 pairs NH₃ flanges, 1 fitted box for compr parts.
 For Brine Pumps: 1 impeller & 1 impeller shaft
 Steam Engine Spares (interchangeable with dynamo engine)

2 sets H.P. piston rings
 2 " L.P. " "
 2 " Governor springs
 2 " Springs for piston rings
 2 " metallic packing wearing parts for H.P. pistons
 2 " " " " " L.P. " "
 2 " " " " " value rod
 2 " centre points
 1 pair crankpin bearings
 1 pair crosshead bearings
 1 set main bearings
 2 oil pump strainers + gauges
 1 case for parts.

ELECTRICAL SPARES

For Brine Pump Motors
 1 Armature packed for storage
 1 set bearings
 1 set field coils
 1 set interpole coils
 1 line brush holders
 1 set carbon brushes
 1 set controller spares
 For Fan Motors each size
 1 complete motor, 1 set bearings
 1 line brush holder, 2 sets carbon brushes
 1 set controller spares.

The foregoing is a correct description of the Refrigerating Machinery.

J. & E. HALL, LTD

J. Collett
 Manufacturer.

DESCRIPTION OF INSULATION.

	IN LOWER HOLD CHAMBERS.					IN 'TWEEN DECK CHAMBERS.				
	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of disto.	Inner Lining.	Air Space.	Outer Lining.	Non-conducting Material.	Thickness of disto.	Inner Lining.
BULKHEADS.										
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. (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.) *The refrigerating machinery was constructed under special survey and the materials and workmanship are good and it will be eligible for the notation + Lloyds R.M.C. (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.	Is Refrigerating Machinery Electrically Driven?	INSULATED CARGO CHAMBERS.	
No. of Units.	No. of Compressors.	System.	Makers.	Date of Construction.				Tons.	No.
3	6	Ammonia	J. E. Hall Ltd.	1942	(1) air.	108		5	409,000 368,000

*Low 1/2 1/2 }
Fee G.L.S. 1/24 } £36.00 } Fee applied for, 19
Travelling Expenses £30 } Received by me, 19
*with low 6/11/42.**

D. Gemmell
Surveyor to Lloyd's Register.

Committee's Minute

TUE 10 NOV 1942

Assigned

See Gls. Rpt 66266



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Lloyd's Register
Foundation

Certificate to be sent to