

Common
Are thermometers fitted to the outflow 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	15-5-42				
MULTIPLE EFFECT RECOVERERS	12-5-42	32 lb. □	300 lb. □	175 lb. □	OK	
CONDENSER COILS	22-5-42	29-5-42				
EVAPORATOR COILS	2-6-42	9-6-42	185 lb. □	1500 lb. □	500 lb. □	OK
CONDENSER HEADERS AND CONNECTIONS	9-6-42	19-6-42	do.	do.	do.	OK
CONDENSER CASINGS	16-6-42	23-6-42	do.	do.	do.	OK
EVAPORATOR CASINGS	9-6-42	12-6-42	do.	do.	do.	OK
NH ₃ CONDENSER, EVAPORATOR AND AIR COOLER COILS AFTER ERECTION IN PLACE	23-6-42	26-6-42	10-15 lb. □	30 lb. □	✓	OK
BRINE PIPING AFTER ERECTION IN PLACE	30-6-42	do.	do.	✓	OK	

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 Comp. 1 Comp. 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 comp. joints

2 sets other NH₃ joints, 2 springs for water relief valve, 2 springs for brine relief valve, 1 hydrometer

2 brine return thermos, 1 plunger for forced brine pump, 2 pairs NH₃ flanges, 1 fitted box for comp. parts

For Brine Pump: 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 holders, 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 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. (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.				No.	Capacity.
3	6	Ammonia	J. E. Hall Ltd.	1942	(1) air.	Tons. 108		5	409,000 362,000

Low 12 1/2 }
Fee G.L.S. 124 1. £36.0.0 } Fee applied for, 19
Travelling Expenses £30 } Received by me, 19

Committee's Minute

TUE 10 NOV 1942

Assigned.

See Gls. Rpt 66266

D. Gemmell
Surveyor to Lloyd's Register.



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Foundation