

Common NH₃ Are thermometers fitted to the outflow and to each return pipe *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 *yes* 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 *yes*

HYDRAULIC AND OTHER TESTS.

DESCRIPTION.	Date of Test.	Working Pressure.	Hydraulic Test Pressure.	Air Test Pressure.	Stamped.	REMARKS.
ENGINE CYLINDERS (IF TESTED)						
GAS COMPRESSORS	17-7-42	185 lb. sq. in.	600 lb. sq. in.	350 lb. sq. in.	OK	
SEPARATORS	18-8-42	do.	500 lb. sq. in.	300 lb. sq. in.	OK	
CRANK CASES	17-7-42	32 lb. sq. in.	300 lb. sq. in.	175 lb. sq. in.	OK	
MULTIPLE EFFECT RECOVERERS	25-8-42	185 lb. sq. in.	1500 lb. sq. in.	500 lb. sq. in.	OK	
CONDENSER COILS	1-9-42	do.	do.	do.	OK	
EVAPORATOR COILS (air coolers)	21-8-42	do.	do.	do.	OK	
CONDENSER HEADERS AND CONNECTIONS	1-9-42	do.	do.	do.	OK	
CONDENSER CASINGS	18-9-42	10-15 lb. sq. in.	30 lb. sq. in.		OK	
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

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

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 *yes*

Has the spare gear required by the Rules been supplied *yes*

Additional Spare Gear Supplied: 3 main bearings for compr., 1 compr. cyl. cover, 3 sets gland packing 2 oil sight glasses, 2 drip feed sight glasses, 1/2 doz safety disch., 1 NH₃ gauge, 1 gauge valve 1 set dies for 1 1/2" pipe, 1 set Vee belts, 1 set compr. joints, 2 sets of other NH₃ joints. 1 crankshaft 2 springs for water relief valve, 2 thermometers. 1 plunger for forced lubr. pump, 2 pairs NH₃ flanges, 1 fitted box for compr. parts 1 impeller shaft for circulating water pump.

STEAM ENGINE SPARES.

2 sets H.P. piston rings 2 " L.P. " 2 " governor springs 2 " springs for piston rings Secondary springs, 2 oil pump strainers & gauges 2 sets metallic packing wearing parts for H.P. piston rod. 2 " " " " " L.P. " 2 " " " " " " value rod. 2 sets of center points 1 pair crankpin bearings 1 pair crankhead bearings 1 set main bearings 1 case for above.

ELECTRICAL SPARES.

Water Pump motor 1 Armature (packed) 1 set bearings 1 set field coils 1 set interpole coils 1 line of brush holder 1 set carbon brushes 1 set controller spares. 2 Fan Motors each size 1 complete motor 2 sets carbon brushes 1 set controller spares

The foregoing is a correct description of the Refrigerating Machinery.

J. G. Hall, 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. (After Peak)	A									
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										
RIBBAND ON TOP OF DECKS										
SIDE STRINGERS, TOP										
WEB FRAMES, SIDES										
BRACKETS, TOP										
INSULATED HATCHES, MAIN										
HATCHWAY COAMINGS, MAIN										
HOLD PILLARS										
MASTS										
Are insulated plugs fitted to provide easy access to bilge suction roses										
and manhole doors of tanks										
Is the insulation of the lower hold floor and tunnel top in way of the hatchways protected										
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										
fixed or portable										
Thermometer Tubes, No. and position in each chamber										
diameter										
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										
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 + Lloyd's P.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.
2	2	Ammonia	J. & E. Hall	1942	(1) Air	Tons.			
									Cubic ft.
						72		4	244,000

Fee ^{Low} _{Gen} £ 14 : 0 : 0

Travelling Expenses £

Fee applied for,

Received by me,

19 OCT 1942

19

D. Gemmell

Surveyor to Lloyd's Register.

Committee's Minute

TUE 22 DEC 1942

Assigned

See Gpk. 22/114



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Foundation