



Are thermometers fitted to the <sup>Common</sup> 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. lbs/sq. in.	Hydraulic Test Pressure. lbs/sq. in.	Air Test Pressure. lbs/sq. in.	Stamped.	REMARKS.
Engine Cylinders (if tested) ...	20.8.46	185	600	350	RD	
Gas Compressors ...	23.8.46	185	600	350	RD	
Separators ...	4.12.46	185	500	250	RD	
CRANKCASES	28.8.46	32	300	175	RM, RD	
Multiple Effect Receivers	30.8.46	185	500	250	RD	
Condensers Coils (S+T) ...	6.11.46	185	500	250	RD	
Evaporators Coils (S+T) ...	8.11.46	185	500	250	RD	
Condenser Headers and Connections	13.11.46	12 1/2	100	—	RD	
Condenser Casings ...	15.11.46	25	100	—	RD	
Evaporator Casings ...	22.11.46	185	1500	500	RD	
NH <sub>3</sub> Condenser, Evaporator and Air Cooler Coils after erection in place	2.12.46	185	1500	500	RD	
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..... &..... 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: 1 connecting rod (less bushes): 6 connecting rod bushes: 6 connecting rod big end bushes: 1 main bearing for one machine: 1 compressor cylinder cover: 9 safety discs: 1 NH<sub>3</sub> gauge  
 1 set of "Vee" belts: 2 springs for brine relief valve: 1 hydrometer: 1 NH<sub>3</sub> stop valve: 4 tubes for NH<sub>3</sub> condensers and one expanding tool for tubes: 4 tubes for NH<sub>3</sub> evaporators and one expanding tool for tubes: 1 plunger for forced lubricating pump.  
 One impeller, one impeller shaft and one set of bearings for sea water and brine pumps  
 Electrical spares:  
 One armature packed for stowage } for machine motors  
 One set of field coils } and brine and water pump  
 One set of interpole coils } motors  
 One spare fan motor for each dry fan fitted  
 One spare fan motor for each dry fan fitted

The foregoing is a correct description of the Refrigerating Machinery.

J. & E. HALL, LTD.

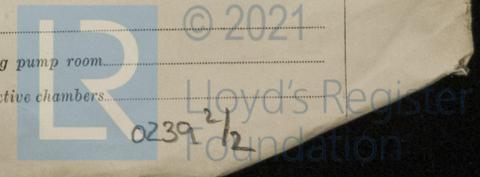
J. Wells

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 bunks 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.....

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 has been constructed under special survey and the materials and workmanship are good. In our opinion the refrigerating machinery and appliances of this vessel will be eligible for the notation of Lloyd's RMC (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. Tons.	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	Automatic	J.C. Hall Ltd Glasgow	1946	0 Bone and Air	51	Yes	5	67,560

Fee £ 26: 0: 0  
Travelling Expenses £ : :  
Received by me, 19.....

R. Muntan, R. J. Dune  
Surveyor to Lloyd's Register.

Committee's Minute..... GLASGOW 10 JUN 1947

Assigned.....



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