

REPORT ON REFRIGERATING MACHINERY AND APPLIANCES.

(Received at London Office)

Date of writing Report 19 AUG 1929 When handed in at Local Office 19 AUG 1929
 No. in Reg. Book. Survey held at Dartford Date: First Survey and Last Survey 16 August 1929
 Port of London (No. of Visits ONE)

on the Refrigerating Machinery and Appliances of the _____ Tons { Gross _____ Net _____
 Vessel built at _____ By whom built Wiltons S.B. Co Yard No. 318 When built 1929
 Owners Holland Amerika Line Port belonging to _____ Voyage _____
 Refrigerating Machinery made by J. E. Hall Ltd. Machine No. 8043 When made 1929
 Insulation fitted by _____ When fitted _____ System of Refrigeration CO₂ + Brine
 Method of cooling Cargo Chambers _____ Insulating Material used _____
 Number of Cargo Chambers insulated 15-19 Total refrigerated cargo capacity 155470 142,000 cubic feet.

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed _____

MACHINES
 Refrigerating Units, No. of 1 additional Single, double, or triple single Cubic feet of air delivered per hour _____
 Total refrigeration or ice-melting capacity in tons per 24 hours 33 tons Are all the units connected to all the refrigerated chambers _____

Compressors, driven direct or through single reduction gearing. Compressors, single or double acting double acting No. of cylinders one
 Diameter of cylinders 4 1/8" Diameter of piston rod 2" Length of stroke 12" No. of strokes per minute 300

Motive Power supplied from Electric motor, direct coupled

Steam Engines, high pressure, compound, or triple expansion, surface condensing. No. of cylinders _____ Diameter _____
 Length of stroke _____ Working pressure _____ Diameter of crank shaft journals and pins 5 1/2"
 Breadth and thickness of crank webs 8" x 3 1/2" No. of sections in crank shaft one Revolutions of CO₂ machine engines per minute 150

Oil Engines, type _____ 2 or 4 stroke cycle _____ Single or double acting _____ B.H.P. _____
 No. of cylinders _____ Diameter _____ Length of stroke _____ Span of bearings as per Rule _____
 Maximum pressure in cylinders _____ Diameter of crank shaft journals and pins _____
 Breadth and thickness of crank webs _____ No. of sections in crank shaft _____ Revolutions of engine per minute _____

Electric Motors, type _____ No. of one Rated 80 H.P. Kilowatts _____
 Volts at _____ revolutions per minute. Diameter of motor shafts at bearings _____

Reduction Gearing, maximum shaft horse power at 1st pinion _____ Revolutions per minute at full power at 1st pinion _____
 2nd pinion _____ 1st reduction wheel _____ main shaft _____ Pitch circle diameter, 1st pinion _____ 2nd pinion _____
 1st reduction wheel _____ Main wheel _____ Width of face, 1st reduction wheel _____ Main wheel _____
 Distance between centres of pinion and wheel faces and the centre of the adjacent bearings, 1st pinion _____ 2nd pinion _____
 1st reduction wheel _____ Main wheel _____ Flexible pinion shafts, diameter 1st _____ 2nd _____
 Pinion shafts, diameter at bearings, External, 1st _____ 2nd _____ Internal, 1st _____ 2nd _____
 Diameter at bottom of teeth of pinion, 1st _____ 2nd _____ Wheel shafts, diameter at bearings, 1st _____
 Main _____ Diameter at wheel shroud, 1st _____ Main _____

Gas Condensers, No. of _____ Cast iron or steel casings _____ Cylindrical or rectangular _____
 No. of coils in each _____ Material of coils _____ Can each coil be readily shut off or disconnected _____

Water Circulating Pumps, No. and size of _____ how worked _____ **Gas Separators**, No. of _____

Gas Evaporators, No. of _____ Cast iron or steel casings _____ Pressure or gravity type _____
 No. of coils in each casing _____ Material of coils _____ Can each coil be readily shut off or disconnected _____

Direct Expansion or Brine Cooled Batteries, No. of _____ Are there two separate systems, so that one may be in use while the other is being cleared of snow _____
 No. of coils in each battery _____ Material of coils _____ Can each coil be readily shut off or disconnected _____
 Total cooling surface of battery coils _____ Is a watertight tray fitted under each battery _____

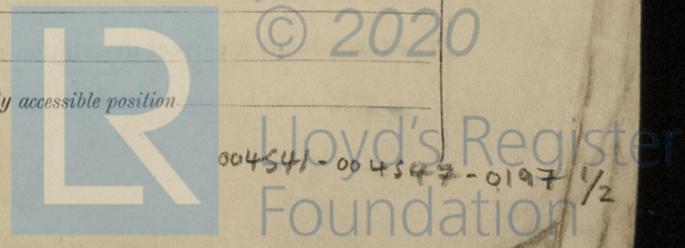
Air Circulating Fans, Total No. of _____ each of _____ cubic feet capacity, at _____ revolutions per minute _____
 Steam or electrically driven _____ Where spare fans are supplied are these fitted in position ready for coupling up _____

Brine Circulating Pumps, No. and size of, including the additional pump _____ how worked _____

Brine Cooling System, closed or open _____ Are the pipes and tanks galvanised on the inside _____
 No. of brine sections in each chamber _____

Can each section be readily shut off or disconnected _____ Are the control valves situated in an easily accessible position _____

NOTE.—THE WORDS WHICH DO NOT APPLY SHOULD BE DELETED.



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, inside dimensions, main _____ and branch _____

Are they permanently fixed or collapsible, or portable _____ State position in chambers _____

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 _____ 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 machine has been constructed under special survey and the materials and workmanship are good.*

PARTICULARS TO BE ENTERED IN REGISTER BOOK.

REFRIGERATING MACHINES.					System of (1) Refrigerating (2) Insulating the Chambers.	POWER.		INSULATED CARGO CHAMBERS.	
No. and whether Single or otherwise.	Makers.	Date of Construction.	System.	Type.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity.
	<i>J. & E. Hall Ltd.</i>	<i>1929</i>	<i>Carb. Amby</i>	<i>-</i>		<i>33</i>			

Fee £ : : { Fee applied for, 19

Travelling Expenses £ : : { Received by me, 19

D. Gemmell
Surveyor to Lloyd's Register.

FRI. 25 OCT 1929

Committee's Minute _____

Assigned *See other rept. No.*
amb 34716

Certificate to be sent to



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