

Report on Refrigerating Machinery and Appliances.

Received at London Office

Date of writing Report 23/5/ 19 51 When handed in at Local Office 23/5/ 19 51 Port of Yokohama
 No. in 50458 Reg. Book. Survey held at Yokohama Date: First Survey and Last Survey 22nd May 19 51
 (Number of Visits one)
 on the Refrigerating Machinery and Appliances of the m/v "AJAX" Tons {Gross 7540
 Net 4628
 Vessel built at Greenock By whom built Scotts' S.S. & Eng. Co. Yard No. 8352 When built 1931
 Owners Ocean S.S. Co. Ltd. Port belonging to Liverpool Voyage 8352
 Refrigerating Machinery made by J & E Hall & Co. Machine Nos. 8264 When made 1931
 Insulation fitted by - When fitted - System of Refrigeration CO2
 Method of cooling Cargo Chambers Brine & Air Insulating Material used -
 Number of Cargo Chambers insulated No. 4 lower hold & tween deck Total refrigerated cargo capacity 44.110 cubic feet

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed In shaft tunnel
 Refrigerating Units, No. of 2 No. of machines 2 Is each machine independent Yes
 Total refrigeration or ice-melting capacity in tons per 24 hours Are all the units connected to all the refrigerated chambers. Yes
 Compressors, driven direct or through single reduction gearing Compressors, single or double acting Single If multiple effect compression Yes
 Are relief valves or safety discs fitted Relief No. of cylinders to each unit 2 Diameter of cylinders 2 3/4
 Diameter of piston rod 1 1/4" Length of stroke 7" No. of revolutions per minute 230-350
 Motive Power supplied from 3 Diesel Electric Generators
 (State number of boilers, oil engines or electric generators supplying the motive power.)
 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 -
 Breadth and thickness of crank webs - No. of sections in crank shaft - Revolutions of engines per minute -
 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 -
 Air Receivers:—Have they been made under survey - State No. of Report or Certificate -
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule -
 Can the internal surfaces of the receivers be examined and cleaned - Is a drain fitted at the lowest part of each receiver -
 No. of Receivers - Cubic capacity of each - Internal diameter - thickness -
 Seamless, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure by Rules -
 Electric Motors, type CS 14 Compound No. of 2 Rated 18.7 Kilowatts HP 200 Volts
 at 230/350 revolutions per minute. Diameter of motor shafts at bearings 3-7/8
 Reduction Gearing - Pitch circle diameter, pinion - Main wheel - Width of face -
 Distance between centres of pinion and wheel faces and the centre of the adjacent bearings, pinion - Main wheel -
 Pinion shafts, diameter at bearings - Main wheel shaft, diameter at bearings -
 Gas Condensers, No. of 2 Cast iron or steel casings Cast iron Cylindrical or rectangular Cylindrical Are safety valves fitted
 to casings Yes No. of coils in each 4 Material of coils Copper Can each coil be readily shut off or disconnected Yes
 Water Circulating Pumps, No. and size of pumps available 2-13020 gals/hr how worked Electric Gas Separators, No. of 2
 Gas Evaporators, No. of 2 Cast iron or steel casings Steel Pressure or gravity type pressure If pressure type, are safety
 valves fitted Yes No. of coils in each casing 3 Material of coils steel Can each coil be readily shut off or disconnected Yes
 Direct Expansion or Brine Cooled Batteries, No. of 1 Are there two separate systems, so that one may be in use while the other is
 being cleared of snow No No. of coils in each battery 8 Material of coils galvanized iron Can each coil be readily shut off or
 disconnected Yes Total cooling surface of battery coils 2584 Square feet Is a watertight tray fitted under each battery Yes
 Air Circulating Fans, Total No. of 2 each of 12.770 cubic feet capacity, at 700 revolutions per minute
 Steam or electrically driven Electric Where spare fans are supplied are these fitted in position ready for coupling up None
 Brine Circulating Pumps, No. and size of, including the additional pump 3 - 6.540 gals/hr how worked Electric
 Brine Cooling System, closed or open Open Are the pipes and tanks galvanised on the inside Tank No Pipes Yes
 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.



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Sounding Pipes, No. and position in each chamber situated below the loadwater 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.....
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General Remarks (State quality of workmanship, opinions as to class, &c.).....
The Refrigerating machinery and appliances of this vessel so far as now seen are
in an efficient condition, the workmanship and materials appear satisfactory.....
It is submitted that this installation is eligible to be classed with this Society
in accordance with the Rules for machinery not built under Survey, and to have the
notation of LLOYD'S RMC, when the survey has been completed in accordance with Yokohama
report No. 394.....
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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	CO2	J & E Hall & Co	1931	(1) Brine	Tons.	Yes	2	Cubic ft. 44,110

Fee \$ 20 : - : - { Fee applied for, 19
Travelling Expenses \$ - : 10 : - { Received by me, 19

Committee's Minute. TUES. 21 AUG 1951

Assigned. See Kib 84