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R. M. C. N. 24840
No. 9941

Rpt. 17.

REPORT ON REFRIGERATING MACHINERY AND APPLIANCES.

(Received at London Office 1 JUL 1927)

Date of writing Report 28/6/27 When handed in at Local Office 28/6/27 Port of GENOA

No. in Reg. Book. Survey held at GENOA Date: First Survey May 25th Last Survey June 8th 1927. (No. of Visits Three)

the Refrigerating Machinery and Appliances of the T.S.S. "CONTE GRANDE" Tons { Gross..... Net.....

Vessel built at Trieste By whom built Stab. Tecnico Triestino Card No. 764 When built 1927

Owners LLOYD SABAUDO Port belonging to Genoa Voyage

Refrigerating Machinery made by J. & E. Hall Machine No. 5185 5189 When made 1920 (Stated)

Insulation fitted by When fitted System of Refrigeration CO 2 Hall

Method of cooling Cargo Chambers Brine Insulating Material used
Number of Cargo Chambers insulated Total refrigerated cargo capacity cubic feet.

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed

Refrigerating Units, No. of Two Single, double, or triple Single Cubic feet of air delivered per hour -

Total refrigeration or ice-melting capacity in tons per 24 hours 30 Are all the units connected to all the refrigerated chambers

Compressors, driven direct ~~single~~ ^{single} ~~double~~ Compressors, single or double acting Double No. of cylinders 2-1 per Machine
Diameter of cylinders 4 inch Diameter of piston rod 2" Length of stroke 9" No. of strokes per minute 240 (120 R.P.M.)

Motive Power supplied from Boilers

Steam Engines, high pressure, ~~surface~~ surface condensing. No. of cylinders 1 per Machine Diameter 12"
Length of stroke 9" Working pressure 180 lb. Diameter of crank shaft journals and pins 5"

Breadth and thickness of crank webs 7" x 2-3/4" & 2-1/2" No. of sections in crank shaft One Revolutions of engines per minute 120
Oil Engines, type 2 or 4 stroke cycle Single or double acting

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 Rated 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 Two Cast iron or steel casings Cast iron Cylindrical or rectangular rectangular

No. of coils in each 3 Material of coils Copper Can each coil be readily shut off or disconnected Yes

Water Circulating Pumps, No. and size of 1 each machine how worked By main shaft Gas Separators, No. of Two
7" Diar. x 6" Stroke Steel Pressure or gravity type Pressure

Gas Evaporators, No. of Two Cast iron or steel casings Iron Can each coil be readily shut off or disconnected Yes

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

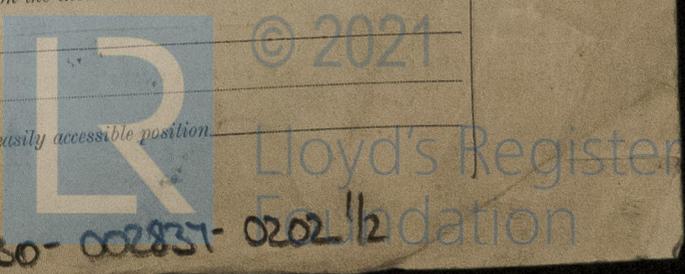
disconnected Total cooling surface of battery coils Is a watertight tray fitted under each battery
Air Circulating Fans, Total No. of each of cubic feet capacity, at revolutions per minute

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 3 Lamont 4-1/2x5x6 how worked Steam

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

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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 machinery has been opened up, examined and found in apparently new condition.

In my opinion the vessel will be eligible for the Record Lloyd's R.M.C. (With date) when the installation has been satisfactorily completed on board, and tried under working conditions.

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 Duplex.	Makers.	Date of Construction.	System.	Type.		Cubic feet of air delivered per hour.	Ice melting capacity per 24 hours. Tons.	No.	Capacity.
2 Single	J. & E. Hall		CO ₂	Hall	Brine		30		

Fee Genoa Lit: 450.00 £: 24/6/ 27. Fee applied for, 1927.

Traveling Expenses £: 50.00 Received by me, 16.8 1927

Alex Saward
Surveyor to Lloyd's Register.

Committee's Minute FRI 23 MAR 1928

FRI. 18 MAY 1928

Assigned

Sahen 1/1 Pw 9869
Rmb 29837



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Foundation

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