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Rpt. 17.

No. 18874

REPORT ON REFRIGERATING MACHINERY AND APPLIANCES.

(Received at London Office 24 OCT 1929)

Date of writing Report 10 When handed in at Local Office Port of Rotterdam

No. in Reg. Book. Survey held at Schiedam Date: First Survey 5 June 1929 Last Survey 22 Oct. 1929 (No. of Visits 24)

on the Refrigerating Machinery and Appliances of the m.v. "Delfdijk" Tons { Gross 1022.0 Net 638.5

essel built at Schiedam By whom built Wilton's Eng. & Shipyard Card No. 318 When built 1929

owners Holland Amerika Lijn Port belonging to Rotterdam Voyage 4920-21-22

Refrigerating Machinery made by Hall Machine No. 80-43 When made 1929

Installation fitted by Hertel & Co. When fitted 1929 System of Refrigeration CO₂

Method of cooling Cargo Chambers 15 by air & 4 by grids Insulating Material used Cork slab Cement finish

Number of Cargo Chambers insulated 19 Total refrigerated cargo capacity 155470 cubic feet

DESCRIPTION OF REFRIGERATING MACHINERY. Where placed D. deck after engine room.

Refrigerating Units, No. of 4 Single, double, or triple See enclosed report Cubic feet of air delivered per hour

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

Compressors, driven direct or through single/double reduction gearing. Compressors, single or double acting No. of cylinders

Diameter of cylinders Diameter of piston rod Length of stroke No. of strokes per minute

Motive Power supplied from 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

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 Shunt compound No. of 4 Rated 59 Kilowatts 2200

Volts at 112-150 revolutions per minute. Diameter of motor shafts at bearings 5.4"

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 4 Cast iron or steel casings double pipe contra flow Cylindrical or rectangular

No. of coils in each 42 Material of coils Seamless steel inner tubes copper lined Can each coil be readily shut off or disconnected Yes

Water Circulating Pumps, No. and size of 2 x 3532 cub. ft. p. h. how worked electrically Gas Separators, No. of 4

Gas Evaporators, No. of 4 Cast iron or steel casings 4 steel Pressure or gravity type Yes

No. of coils in each casing 1 coil Material of coils steel Can each coil be readily shut off or disconnected Yes

Direct Expansion or Brine Cooled Batteries, No. of 9 air coolers Are there two separate systems, so that one may be in use while the other is being cleared of snow Germania reef patent No. of coils in each battery Material of coils Can each coil be readily shut off or disconnected

Is a watertight tray fitted under each battery Total cooling surface of battery coils 1- 1765000 5- 353000 2- 2472000 1- 219000 cubic feet capacity, at 720 revolutions per minute

Air Circulating Fans, Total No. of 9 each of 4- 083 2- 212 cubic feet. how worked electric driven

Steam or electrically driven electrically 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 4- 083 2- 212 cubic feet. how worked electric driven

Brine Cooling System, closed or open open Are the pipes and tanks galvanised on the inside

No. of brine sections in each chamber 0 grids Are the control valves situated in an easily accessible position Yes

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Sounding Pipes, No. and position in each chamber situated below the load water line *2 at sides.*

Diameter *1 1/2"* Are all sounding pipes in way of insulated chambers fitted in accordance with Section 3, Clause 11 *Yes.*

Are all wood linings tongued and grooved *Yes* Are cement facings reinforced with expanded steel lattice *Yes*

How is the expanded metal secured in place *by means of crimp wire staples*

How are the cork slabs secured to the steel structure of the vessel *by bituminous cement.*

Air Trunkways in Chambers, inside dimensions, main *and branch*

Are they permanently fixed or collapsible, or portable *permanently.* State position in chambers *suctions in centre delivery at side. in No. 3. and in the chambers one side suction and other side delivery.*

Where air trunkways pass through watertight bulkheads, are they fitted with watertight doors *Yes* Are the door frames efficiently insulated *Yes.*

Are insulated plugs supplied for the doorways *✓* Where are the doors worked from *upper deck.*

Cooling Pipes in Chambers, diameter *1 1/2"* Are they galvanized externally *Yes*

How are they arranged in the chambers *in sections and fastened with galvanized iron clips.*

Thawing Off, what provision is made for removing the snow from the cooling pipes in the chambers *steam pipes in bin tank.*

The foregoing is a correct description of the Insulation and Appliances.

J. Milton Builders.

Plans. Are approved Plans or Specifications forwarded herewith for the Refrigerating Machinery *no* and Insulation *no 10-3-23.*

Is the Refrigerating Machinery and Appliances duplicate of a previous case *no* 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 *Completed.*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The refrigerating machinery and insulation has been made in accordance with the Society's Rules, approved plans and specification and Secretary's letters. The whole has been tried and tested and was found in a good working order and is in my opinion eligible to be recorded in the Society's Register book with Lloyd's + RMC. 10-29.*

It is submitted that this vessel is eligible for REG. APPROVAL.

+ Lloyd's RMC 10.29

AS *SA*

24/10/29

CERTIFICATE WRITTEN: *24.10.29*

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.	No.	Capacity.
<i>4</i>	<i>J. & E. Hall Ltd.</i>	<i>1929</i>	<i>Carb. Only.</i>	<i>✓</i>	<i>Brine & air Slabeck.</i>	<i>132</i>	<i>19</i>	<i>1554</i>	<i>70</i>

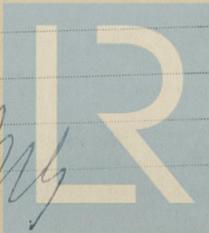
Fee £ *150.00* { Fee applied for, 19 ..

Travelling Expenses £ *20.00* { Received by me, *11/11/19 29* @ *Ret.*

FRI. 20 OCT 1929

J.H. Bourne
Surveyor to Lloyd's Register.

Assigned *+ Lloyd's R.M.C. 10.29*



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Shell Chambers

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

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