

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

7 JUN 1928

Date of writing Report 29-5-1928 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Rotterdam  
Reg. Book.

Date, First Survey 23-12-27 Last Survey 5-5-1928

(Number of Visits 29)

on the Engine No. 167-168

Built at Monfalcone By whom built mms Cantiere Navale Trieste

Yard No. 203

Tons { Gross  
Net  
When built

Engines made at Rotterdam By whom made Rotterdam Droogdok Mij Engine No. 167-168 when made 1920

Boilers made at Rotterdam By whom made Rotterdam Droogdok Mij Boiler No. 468-69 when made 1920

Registered Horse Power

Owners Curacaoische Scheepv. Mij

Port belonging to Willemstad.

Nom. Horse Power as per Rule 236

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted yes

Trade for which Vessel is intended

**ENGINES, &c.**—Description of Engines Two sets of triple expansion engines Revs. per minute 160  
 Dia. of Cylinders  $12\frac{3}{4} \times 20\frac{1}{2} \times 33\frac{7}{8}$  Length of Stroke  $24\frac{1}{16}$  No. of Cylinders  $2 \times 3 = 6$  No. of Cranks  $2 \times 3$   
 Crank shaft, dia. of journals as per Rule 260.4 in as fitted 170 in Crank pin dia. 170 in Crank webs Mid. length breadth 320 in shrunk Thickness parallel to axis 156 in  
 Intermediate Shafts, diameter as per Rule 164.4 in as fitted 170 in Thrust shaft, diameter at collars as per Rule 160.4 in as fitted 170 in  
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 7.6 in as fitted 1.84 in Is the tube screw shaft fitted with a continuous liner yes  
 Bronze Liners, thickness in way of bushes as per Rule 15 in as fitted 15 in Thickness between bushes as per Rule 14 in as fitted 14 in Is the after end of the liner made watertight in the propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length  
 If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive  
 If two liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft yes U.S. patent O. G. Length of Bearing in Stern Bush next to and supporting propeller 868 in  
 Propeller, dia. 8'0" Pitch 4' No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 32 sq. feet  
 Feed Pumps worked from the Main Engines, No.  $2 \times 1$  Diameter 136 in Stroke 100 in Can one be overhauled while the other is at work yes  
 Bilge Pumps worked from the Main Engines, No.  $2 \times 1$  Diameter 136 in Stroke 100 in Can one be overhauled while the other is at work yes  
 Feed Pumps No. and size 2 Weir pumps  $6 \times 8\frac{1}{2} \times 18$  Pumps connected to the Main Bilge Line No. and size 2  $6 \times 7\frac{1}{2} \times 6$   $7\frac{1}{2} \times 5 \times 6$   
 How driven Steam How driven Steam  
 Ballast Pumps, No. and size One  $6 \times 7\frac{1}{2} \times 6$  Lubricating Oil Pumps, including Spare Pump, No. and size  
 Are two independent means arranged for circulating water through the Oil Cooler  
 Bilge Pumps;—In Engine and Boiler Room  
 In Holds, &c.

**Main Water Circulating Pump Direct Bilge Suctions, No. and size** Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges  
 Are all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate  
 What Pipes pass through the bunkers How are they protected  
 What pipes pass through the deep tanks Have they been tested as per Rule  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

**MAIN BOILERS, &c.**—(Letter for record S) Total Heating Surface of Boilers 4160 sq. feet.  
 Is Forced Draft fitted yes No. and Description of Boilers Single ended marine Working Pressure 100 lbs  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes  
 IS A DONKEY BOILER FITTED? If so, is a report now forwarded?

**PLANS.** Are approved plans forwarded herewith for Shafting No Main Boilers No Auxiliary Boilers Donkey Boilers  
 (If not state date of approval) All plans retained in London office for sister vessels.  
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

**SPARE GEAR.** State the articles supplied:— One set of top end bolts and nuts, one set of bottom end bolts and nuts, one set of main bearing bolts and nuts, one set of piston rings, one set of feed and bilge pump valves, a quantity of assorted bolt and nuts and iron of various sizes, one cast iron propeller, one screw shaft and one crankshaft.

The foregoing is a correct description,

ROTTERDAMSCHЕ DROOGDOCK MAATSCHAPPIJ

DIRECTOR

Manufacturer.



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Lloyd's Register  
Foundation

W 57-0000



Dates of Survey while building  
During progress of work in shops -- 13.07.29 31/12 '27. 5-10-14/1 '28. 3-4-8-13-16-21-24-28-29/2 '28. 8-14-15-16-19-24/3 '28.  
During erection on board vessel -- 3-5-13-20-23-27/4 '28 5/5 '28  
Total No. of visits 29.

Dates of Examination of principal parts—Cylinders 13.21-24/2, 8.14.16/3 13/4. Slides 29/2. Covers 29/2 14/3 16/3.  
Pistons Piston Rods 29/2 5-10/1 14/3. Connecting rods 14/1 14/2 16/2 14/3 3/4.  
Crank shaft 29.31/12 5-10-14/1 5-8/2 8-19/3. Thrust shaft 27/12 10/1 3-8/2 19/3. Intermediate shafts 20/2 15/3 5/4.  
Tube shaft ✓ Screw shaft 24-28/2 15/3 5/4. Propeller 20/4.  
Stern tube 19/3 Engine and boiler seatings ✓ Engines holding down bolts ✓

Completion of fitting sea connections ✓

Completion of pumping arrangements ✓

Boilers fixed ✓

Engines tried under steam ✓

Main boiler safety valves adjusted ✓

Thickness of adjusting washers ✓

Crank shaft material S.M. Neil

Identification Mark

Thrust shaft material S.M. Neil

Identification Mark

Intermediate shafts, material S.M. Neil

Identification Mark

Tube shaft, material ✓

Identification Mark ✓

Screw shaft, material S.M. Neil

Identification Mark

Steam Pipes, material ✓

Test pressure ✓

Date of Test ✓

Is an installation fitted for burning oil fuel ✓

Is the flash point of the oil to be used over 150°F. Yes.

Have the requirements of the Rules for the use of oil as fuel been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo Yes

If so, have the requirements of the Rules been complied with ✓

Is this machinery duplicate of a previous case Yes

If so, state name of vessel, Maximina "and others"

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been made in accordance with the approved plans, Secretary's letters and society's Rules material tested as required, and workmanship good, and the vessel will in my opinion be eligible to be recorded in the Society's Register Book with \* L.M.C. with date when the machinery has been satisfactory fitted.

The machinery has been forwarded to Monfalcone

A copy of this report has been forwarded to the Chief Surveyors.

The amount of Entry Fee ... £ 48.00 :  
Special ... £ 203.20 :  
Donkey Boiler Fee ... £ 50.00 :  
Travelling Expenses (if any) £ 144.50 :

When applied for,

When received,

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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