

4 AUG 1927

Rpt. 4.

No. 16522

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 19 When handed in at Local Office 19 Port of *Rotterdam*
 No. in Survey held at *Rotterdam* Date, First Survey *10-12-26* Last Survey *20-5-1927*
 Reg. Book. on the *Engines N^o 156 & 157* (Number of Visits *11*)
 Built at *Montfalcon* By whom built *Albemarle & Co. Naval Engineers* Yard No. *185* Tons } Gross
 Engines made at *Rotterdam* By whom made *Rotterdam* Engine No. *156/57* when made *1927* Net
 Boilers made at *Rotterdam* By whom made *Rotterdam* Boiler No. *442/43* when made *1927*
 Registered Horse Power Owners *Curacao'sche Schipvaart* Port belonging to *Willemstad*
 Diameter Nom. Horse Power as per Rule *236* Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 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 1/4 x 20 1/2 x 32 1/2* Length of Stroke *24 1/2* No. of Cylinders *2 x 3 = 6* No. of Cranks *2 x 3 = 6*
 Crank shaft, dia. of journals as per Rule *17 1/2* as fitted *17 1/2* Crank pin dia. *1 1/2* Mid. length breadth *5.50* Thickness parallel to axis *1.56*
 Intermediate Shafts, diameter as per Rule *16 1/4* as fitted *16 1/4* Thrust shaft, diameter at collars as per Rule *17 1/2* as fitted *17 1/2*
 Tube Shafts, diameter as per Rule *16 1/4* as fitted *16 1/4* Screw Shaft, diameter as per Rule *18 1/2* as fitted *18 1/2* Is the tube shaft fitted with a continuous liner *Yes*
 Bronze Liners, thickness in way of bushes as per Rule *16* as fitted *16* Thickness between bushes as per Rule *14* as fitted *14* 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 *Yes*
 If two liners are fitted, is the shaft lapped or protected between the liners *Yes* Is an approved Oil Gland or other appliance fitted at the after
 end of the tube shaft *Yes* Length of Bearing in Stern Bush next to and supporting propeller *8 1/2*
 Propeller, dia. *8' 3"* Pitch *4* No. of Blades *4* Material *Brass* whether Moveable *No* Total Developed Surface *32* sq. feet
 Feed Pumps worked from the Main Engines, No. *2 x 1* Diameter *130* Stroke *100* Can one be overhauled while the other is at work *Yes*
 Bilge Pumps worked from the Main Engines, No. *2 x 1* Diameter *130* Stroke *100* Can one be overhauled while the other is at work *Yes*
 Feed Pumps No. and size *2 Wumpumps 6 x 8 1/2 x 18* Pumps connected to the Main Bilge Line No. and size *2 6 x 7 1/2 x 6* How driven *Steam*
 Ballast Pumps, No. and size *One 6 x 7 1/2 x 6* Lubricating Oil Pumps, including Spare Pump, No. and size *—*
 Are two independent means arranged for circulating water through the Oil Cooler *—* Suctions, connected to both Main Bilge Pumps and Auxiliary
 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 *—*
 That Pipes pass through the bunkers *—* How are they protected *—*
 That 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 *4168*
 Forced Draft fitted *Yes* No. and Description of Boilers *2 Single ended Marine* Working Pressure *180 lbs*
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? *Yes*
 IS A DONKEY BOILER FITTED? *No* If so, is a report now forwarded? *—*

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 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
 coupling bolts, one set of piston rings, one set of feed and bilge pump
 valves, a quantity of assorted bolts and nuts and iron of various
 sizes, one cast iron propeller, one screw shaft, one crankshaft*

The foregoing is a correct description,

ROTTERDAMSCHЕ DROOGDOCK MAATSCHAPPE

DIRECTEUR

Manufacturer.



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Lloyd's Register
Foundation

003808-003815-0333

During progress of work in shops - - *1926 10/12 11/12 20/12 23/12 28/12 1927 3/1 4/1 5/1 10/1 12/1 22/1 28/1 11/2 13/2 15/2 20/2 28/2 29/2*
 Dates of Survey while building *During erection on board vessel - -*
 Total No. of visits *21*

Dates of Examination of principal parts - Cylinders *10/12 15/12 17/12 23/12* Slides *17. 3. 27* Covers *10. 2. 27*
 Pistons *10/12* Piston Rods *15/12 28/12 11/1 6/1* Connecting rods *15/12 23/12 28/12 6/1*
 Crank shaft *15/12 20/12 23/12 11/1 10/1* Thrust shaft *22/12 12/1* Intermediate shafts *22/12 12/1 27*
 Tube shaft *1* Screw shaft *22/12 28/12 12/1 27* Propeller
 Stern tube 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 *L. M. Heel* Identification Mark *LL0400 41. 413. 314 58. 10. 2. 27* Thrust shaft material *L. M. Heel* Identification Mark *LL0400 41. 413. 314 58. 10. 2. 27*
 Intermediate shafts, material *L. M. Heel* Identification Mark *LL0400 41. 413. 314 58. 10. 2. 27* Tube shaft, material *L* Identification Mark *L*
 Screw shaft, material *L. M. Heel* Identification Mark *LL0400 41. 413. 314 58. 10. 2. 27* Steam Pipes, material *L* Test pressure *L* Date of Test *L*
 Is an installation fitted for burning oil fuel *L* Is the flash point of the oil to be used over 150°F. *L*

Have the requirements of the Rules for carrying and burning oil fuel been complied with *L*
 Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Montrea Maximina*

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 MC** with date when the machinery has been satisfactory fitted.*
The machinery has been forwarded to Montfalcone

A copy of this report has been forwarded to the Trust Surveyors

The amount of Entry Fee ... £ *40.00*
 Special ... £ *20.00*
 FEE FOR SPARE SHAFTING ... £ *50.00*
 Donkey Boiler Fee ... £ *10.00*
 Travelling Expenses (if any) ... £ *20.00*
 When applied for, *7/6 1927*
 When received, *21. 6. 27*

J. J. Ochoa
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUES. 9 AUG 1927*
 Assigned *See Tr. Rpt. No. 7634*