

# REPORT ON OIL ENGINE MACHINERY.

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Date of writing Report 4 January 1937 When handed in at Local Office 19 Port of Amsterdam  
 No. in Survey held at Amsterdam Date, First Survey 29 January Last Survey 23 Dec 1936  
 Reg. Book. Single on the Triple Screw vessel "M.V. ERODONA" Number of Visits 50  
 Built at Kampen a/yvel By whom built C. v. d. Gussena in Yard No. 640 When built  
 Engines made at Amsterdam By whom made Werkspoor Engine No. When made  
 Donkey Boilers made at Amsterdam By whom made Werkspoor Boiler No. When made 1936  
 Brake Horse Power 2800 Owners Port belonging to  
 Nom. Horse Power as per Rule 377 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted  
 Trade for which vessel is intended

## OIL ENGINES, &c.—Type of Engines Diesel Injection supercharge 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 700 lbs Diameter of cylinders 650 mm Length of stroke 1400 mm No. of cylinders 6 No. of cranks 6  
 Mean Indicated Pressure 120 lbs Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 234 mm Is there a bearing between each crank yes  
 Revolutions per minute 110 Flywheel dia. 2260 mm Weight 6000 kg Means of ignition Diesels Kind of fuel used Crude oil  
 Crank Shaft, dia. of journals as per Rule approved as fitted 460 mm Crank pin dia. 460 mm Crank Webs Mid. length breadth 210 mm Thickness parallel to axis shrunk Mid. length thickness 290 mm Thickness around eyehole shrunk  
 Flywheel Shaft, diameter as per Rule approved as fitted 340 mm Intermediate Shafts, diameter as per Rule approved as fitted 350 mm Thrust Shaft, diameter at collars as per Rule approved as fitted 340 mm  
 Tube Shaft, diameter as per Rule approved as fitted 370 mm Is the { tube / screw } shaft fitted with a continuous liner yes  
 Screw Shaft, diameter as per Rule approved as fitted 370 mm

Bronze Liners, thickness in way of bushes as per Rule approved as fitted 14.5 mm Thickness between bushes as per rule approved as fitted 15 mm 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 yes

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 no  
 If two liners are fitted, is the shaft lapped or protected between the liners no Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft no  
 Length of Bearing in Stern Bush next to and supporting propeller 1480 mm

Propeller, dia. 4270 mm Pitch 3500 mm No. of blades 4 Material SMS whether Moveable no Total Developed Surface 62 sq. feet  
 Method of reversing Engines by air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced  
 Thickness of cylinder liners 55 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged  
 If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Cooling Water Pumps, No. 3 Salt & fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
 Bilge Pumps worked from the Main Engines, No. 2 Rotary type 25 ton each Can one be overhauled while the other is at work yes  
 Pumps connected to the Main Bilge Line { No. and Size 2 rotary 35 lpm each & 1 general service pump 8" x 8" x 10" How driven Main & Motor Steam driven

Is the cooling water led to the bilges yes If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping arrangements  
 Ballast Pumps, No. and size one 8" x 8" x 10" Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 rotary 40 lpm/hr duplex 8" x 8" x 10"  
 Are two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size:—In Machinery Spaces In Pump Room

In Holds, &c. 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 Spaces 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 platform 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

If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork  
 Main Air Compressors, No. No. of stages Diameters Stroke Driven by  
 Auxiliary Air Compressors, No. 2 No. of stages 2 Diameters 206-184 Stroke 160 mm Driven by one by steam engine  
 Small Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by by Diesel engine

Scavenging Air Pumps, No. Diameter Stroke Driven by  
 Auxiliary Engines crank shafts, diameter as per Rule approved as fitted 100 mm No. Position



