

REPORT ON OIL ENGINE MACHINERY.

No. 136988.

29 MAY 1936

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Port of Amsterdam

Survey held at Amsterdam

Date, First Survey 12 June 1935 Last Survey 13 May 1936

Number of Visits 76

Single
on the Twin
Triple
Quadruple

Screw vessel M.V. "MACOMA"

Tons Gross 8011
Net 4767

built at Amsterdam By whom built Ned Scheepb. W4 Yard No. 235 When built 1936
Engines made at Amsterdam By whom made N.V. Werkspoor Engine No. When made 1936
Donkey Boilers made at Amsterdam By whom made N.V. Werkspoor Boiler No. When made 1936
Brake Horse Power 2000 Owners N.V. Petroleum 4th Co Carona Port belonging to 3rd Havenhage
Nom. Horse Power as per Rule 502 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
made for which vessel is intended 25-76 558

ENGINES, &c.—Type of Engines Diesel ~~without~~ injection supercharge 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 8 No. of cranks 8
An of bearings, adjacent to the Crank, measured from inner edge to inner edge 844 mm Is there a bearing between each crank yes
Revolutions per minute 110 Flywheel dia. 2260 mm Weight 6000 kg Means of ignition ~~spark~~ Kind of fuel used ~~crude oil~~
Crank Shaft, dia. of journals as per Rule 444 mm as fitted 460 mm Crank pin dia. 460 mm Crank Webs Mid. length breadth 870 mm Thickness parallel to axis shrunk
Flywheel Shaft, diameter as per Rule 444 mm as fitted 460 mm Intermediate Shafts, diameter as per Rule approved as fitted 470 mm Thrust Shaft, diameter at collars as per Rule approved as fitted 460 mm
Main Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 345 mm as fitted 400 mm Is the shaft fitted with a continuous liner yes
Bronze Liners, thickness in way of bushes as per Rule as fitted 20 mm Thickness between bushes as per rule 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 C.E.

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
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
aft no If so, state type Length of Bearing in Stern Bush next to and supporting propeller 1440 mm

Propeller, dia. 15'-0" Pitch 12'-0" No. of blades 4 Material Bronze whether Moveable no Total Developed Surface sq. feet
Method of reversing Engines by hand 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 funnel
Cooling Water Pumps, No. 3 Salt 2 fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
What special arrangements are made for dealing with cooling water if discharged into bilges overboard

Bilge Pumps worked from the Main Engines, No. 2 Rotary type 35 ton each Stroke Can one be overhauled while the other is at work yes
Pumps connected to the Main Bilge Line No. and Size 2 rotary pumps 35 ton each one 8"x8"x10" How driven gear driven from M. engine Steam driven
Ballast Pumps, No. and size 1- 8"x8"x10" Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 rotary 40 ton/hr. steam driven 8"x8"x10"

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 5- 3 1/2" each 2- 2" full pump suction from gutterway In Pump Room 1- 3" aft 1- 2" fore
In Holds, &c. in cofferdam aft 1- 4" in cofferdam fore 3- 2 1/4" in fore hold 3- 2"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1- 6 1/2" and 1- 5"
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes yes Are the Bilge Suctions in the Machinery Spaces
ed from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes

Are all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks. Valves & cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates yes Are the Overboard Discharges above or below the deep water line above
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes

What pipes pass through the bunkers none How are they protected
What pipes pass through the deep tanks counter 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 yes

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 yes Is the Shaft Tunnel watertight none 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. none No. of stages Diameters Stroke Driven by
Auxiliary Air Compressors, No. 2 No. of stages 2 Diameters 206 x 206-104 Stroke 160 mm Driven by Main engine
Small Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
Scavenging Air Pumps, No. Bottom each cylinder Diameter 650 mm Stroke 1400 mm Driven by main engine

Auxiliary Engines crank shafts, diameter as per Rule as fitted 6" Position
AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule yes
Can the internal surfaces of the receivers be examined and cleaned yes Is a drain fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. none Cubic capacity of each Internal diameter thickness
Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules Actual
Starting Air Receivers, No. 2 Total cubic capacity 20000 cu feet Internal diameter 1495 mm thickness 21 mm
Seamless, lap welded or riveted longitudinal joint Riveted Material S M S Range of tensile strength 29-24 ton Working pressure by Rules Actual 375 lbs 350 lbs

