

# REPORT ON OIL ENGINE MACHINERY.

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No. in Survey held at Cologne-Deutz Date, First Survey 18<sup>th</sup> January 1928 Last Survey 23<sup>rd</sup> February 1928  
Reg. Book. Energie Number of Visits 7

on the Single } Screw vessel  
Twin }  
Triple }  
Quadruple }  
Built at Queensferry near Chester By whom built Maxwell Mitchell's Shipyard Yard No. 535 When built 205195/202  
Engines made at Cologne-Deutz By whom made Motorenfabrik Deutz A.G. Engine No. 202 When made Febr. 1928  
Donkey Boilers made at \_\_\_\_\_ By whom made \_\_\_\_\_ Boiler No. \_\_\_\_\_ When made \_\_\_\_\_  
Brake Horse Power 2 sets, 200 HP each Owners Midway Oil Storage Co. London Port belonging to \_\_\_\_\_  
m. Horse Power as per Rule 57 each Is Refrigerating Machinery fitted for cargo purposes  Is Electric Light fitted   
ade for which vessel is intended \_\_\_\_\_

ENGINES, &c.—Type of Engines Heavy Oil Engine S.V.M.V. 145 2 or 4 stroke cycle Single or double acting \_\_\_\_\_  
Minimum pressure in cylinders 40 kg. p. sq. cm. Diameter of cylinders 280 mm. Length of stroke 450 mm. No. of cylinders 4 per set No. of cranks 4 per set  
No. of bearings, adjacent to the Crank, measured from inner edge to inner edge 334 mm. Is there a bearing between each crank   
Revolutions per minute 300 Flywheel dia. 1200 mm. Weight 1940 kg. Means of ignition Fuel spray Kind of fuel used gas oil  
Crank Shaft, dia. of journals as per Rule \_\_\_\_\_ as fitted 150 mm. Crank pin dia. 150 mm. Crank Webs Mid. length breadth 200 mm. Thickness parallel to axis \_\_\_\_\_  
Mid. length thickness 88 mm. Thickness around eye-hole \_\_\_\_\_  
Propeller Shaft, diameter as per Rule \_\_\_\_\_ as fitted 150 mm. Intermediate Shafts, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Thrust Shaft, diameter at collars as per Rule \_\_\_\_\_ as fitted 140 mm.  
Screw Shaft, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Is the { tube } shaft fitted with a continuous liner { no }  
Cylinder Liners, thickness in way of bushes as per Rule \_\_\_\_\_ as fitted 7/16" Thickness between bushes as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Is the after end of the liner made watertight in the \_\_\_\_\_  
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner \_\_\_\_\_  
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 \_\_\_\_\_  
Length of Bearing in Stern Bush next to and supporting propeller 188 mm.  
Propeller, dia. 5'4 3/4" Pitch \_\_\_\_\_ No. of blades 3 Material brass whether Moveable no Total Developed Surface \_\_\_\_\_ sq. feet  
Method of reversing Engines by means of tooth wheels Is a governor or other arrangement fitted to prevent racing of the engine when declutched  Means of lubrication \_\_\_\_\_  
Pressure Thickness of cylinder liners 23 mm. Are the cylinders fitted with safety valves  Are the exhaust pipes and silencers water cooled or lagged with \_\_\_\_\_  
conducting material water 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. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel   
Bilge Pumps worked from the Main Engines, No. One Diameter 75 mm. Stroke 70 mm. Can one be overhauled while the other is at work   
Pumps connected to the Main Bilge Line { No. and Size one Centrifugal pump 3166 litres per hour capacity, Lloyd's 2460, 6.1.28 }  
How driven 700 crank shaft  
Fast Pumps, No. and size one double wheel pump Lubricating Oil Pumps, including Spare Pump, No. and size One tooth wheel pump and one spare  
Are two independent means arranged for circulating water through the Oil Cooler  Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge \_\_\_\_\_  
Pumps, No. and size:—In Machinery Spaces 4  
Holds, &c. \_\_\_\_\_  
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size one  
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes  Are the Bilge Suctions in the Machinery Spaces \_\_\_\_\_  
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 both  
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 above  
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 \_\_\_\_\_  
Are all pipes pass through the bunkers None How are they protected \_\_\_\_\_  
Are all 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 \_\_\_\_\_  
apartment to another 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. One per set No. of stages Two Diameters 115 x 135 mm. Stroke 70 mm. Driven by Main Engines  
Auxiliary Air Compressors, No. One No. of stages Two Diameters \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_  
All Auxiliary Air Compressors, No. \_\_\_\_\_ No. of stages \_\_\_\_\_ Diameters \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_  
Serving Air Pumps, No. \_\_\_\_\_ Diameter \_\_\_\_\_ Stroke \_\_\_\_\_ Driven by \_\_\_\_\_  
Auxiliary Engines crank shafts, diameter as per Rule \_\_\_\_\_ as fitted \_\_\_\_\_

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule  Yes  
Are the internal surfaces of the receivers be examined  Yes What means are provided for cleaning their inner surfaces \_\_\_\_\_  
Is there a drain arrangement fitted at the lowest part of each receiver  Yes  
High Pressure Air Receivers, No. \_\_\_\_\_ Cubic capacity of each \_\_\_\_\_ Internal diameter \_\_\_\_\_ thickness \_\_\_\_\_  
Seamless, lap welded or riveted longitudinal joint \_\_\_\_\_ Material \_\_\_\_\_ Range of tensile strength \_\_\_\_\_ Working pressure by Rules \_\_\_\_\_  
Working Air Receivers, No. Two per set Total cubic capacity 250 litres each Internal diameter 450 mm. thickness 12 mm.  
Seamless, lap welded or riveted longitudinal joint lap welded Material Mild steel Range of tensile strength 37.5 kg. sq. cm. Working pressure by Rules 25 kg. p. sq. cm.



