

REPORT ON OIL ENGINE MACHINERY.

No. 27514

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Port of Rotterdam

No. in Survey held at
Reg. Book.

Date, First Survey 14.3.38 Last Survey 25.10.1938

Number of Visits 51

on the Single
Triple
Quadruple MV
Screw vesselCLAUSINATons { Gross 8028
Net 4721Built at Rotterdam By whom built Rot Dragma Mc Yard No. 103 When built 1938Engines made at Amsterdam By whom made Werkspoor Engine No. 711 When made 1938Donkey Boilers made at Rotterdam By whom made Rot Dragma Mc Boiler No. When made 1938Brake Horse Power 5500 Owners Port belonging to Nom. Horse Power as per Rule 504 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YesTrade for which vessel is intended Carrying petroleum in bulkOIL ENGINES, &c.—Type of Engines Solid injection type charged Diesel 4 stroke cycle 4 Single or double acting singleMaximum pressure in cylinders Diameter of cylinders Length of stroke No. of cylinders No. of cranks Mean Indicated Pressure Span of bearings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank Revolutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used Crank Shaft, { Solid forged as per Rule
Semi built dia. of journals as fitted
All built as fitted Crank pin dia. Crank Webs Mid. length breadth shrunk Thickness parallel to axis
Mid. length thickness Thickness around eye hole Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thrust Shaft, diameter at collars as fittedTube Shaft, diameter as per Rule Screw Shaft, diameter as fitted Is the tube shaft fitted with a continuous liner YesBronze Liners, thickness in way of bushes as fitted Thickness between bushes as fitted Is the after end of the liner made watertight in thepropeller 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 lengthIf 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 tubeshaft No If so, state type Length of Bearing in Stern Bush next to and supporting propeller 1690 mmPropeller, dia. 15" Pitch No. of blades 4 Material Brass whether Moveable No Total Developed Surface 72 sq. feetMethod of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubricationForged Thickness of cylinder liners Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged withnon-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 TunnelCooling Water Pumps, No. 4 Is the sea suction provided with an efficient strainer which can be cleared within the vessel YesBilge Pumps worked from the Main Engines, No. 2 Diameter 55 tons 1/4 Stroke Can one be overhauled while the other is at work YesPumps connected to the Main Bilge Line { No. and Size Two à 55 tons 1/4 One 8 x 8 x 10"
How driven Main Engine SteamIs the cooling water led to the bilges No If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumpingarrangements Ballast Pumps, No. and size One à 8 x 8 x 10" Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size One à 55 tons 1/4Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary BilgePumps, No. and size:—In Machinery Spaces 3 à 3 1/2" 1 à 6 1/4" 1 à 5" In Pump Room 1 à 3 1/2"In Holds, &c. 1 in Cofferdam fore 25-24 1/2 19-20 à 4" 1 in fore hold above deck to 50 mm. forward cofferdam 3 à 90 mmIndependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 à 5" 1 à 6 1/4"Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spacesled from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YesAre all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks BothAre 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 AboveAre 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 YesWhat pipes pass through the bunkers One cofferdam suction How are they protected High pipes with valves to forward andWhat 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 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 Mach aft 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 184-206 mm Stroke 160 mm Driven by One Main EngineSmall Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by One Main EngineWhat provision is made for first Charging the Air Receivers Scavenging Air Pumps, No. Diameter Stroke Driven by Auxiliary Engines crank shafts, diameter as per Rule No. Position Have the Auxiliary Engines been constructed under special survey Yes (Main and Aux) Is a report sent herewith

AIR RECEIVERS:—Have they been made under survey. *Yes* State No. of Report or Certificate *-*
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*
Injection 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* *-*
Actual *-*
Starting Air Receivers, No. *-* Total cubic capacity *800 cub feet* Internal diameter *14 1/2 in* thickness *-*
Seamless, lap welded or riveted longitudinal joint *-* Material *-* Range of tensile strength *-* Working pressure *by Rules* *-*
Actual *-*

IS A DONKEY BOILER FITTED? *Yes* If so, is a report now forwarded? *Yes*
Is the donkey boiler intended to be used for domestic purposes only *No*
PLANS. Are approved plans forwarded herewith for Shafting *All forwarded by Amsterdam Surveyors*
(If not, state date of approval)
Donkey Boilers *-* General Pumping Arrangements *-* Pumping Arrangements in Machinery Space *-*
Oil Fuel Burning Arrangements *-*

SPARE GEAR.

Has the spare gear required by the Rules been supplied *Yes*
State the principal additional spare gear supplied *Cast iron propeller, screw shaft and further as per
owner specification*

The foregoing is a correct description,

DE ROTTERDAMSCHЕ DROOGDOX MIJ.

Manufacturer.

Dates of Survey while building
During progress of work in shops-- *17/5/25 20/5/6 9/12 13/15 16/15 18/15 19/16 20/16 21/16 22/16*
During erection on board vessel-- *21/6 29/6 9/7 19/7 20/7 24/7 1/8 4/8 10/8 29/8 9/9 13/9 22/9 28/9 5/10 7/10 8/10 12/10 13/10 14/10 15/10 17/10 18/10 22/10 25/10*
Total No. of visits *45*
Dates of Examination of principal parts—Cylinders *-* Covers *-* Pistons *-* Rods *-* Connecting rods *-*
Crank shaft *-* Flywheel shaft *-* Thrust shaft *-* Intermediate shafts *25.6.38* Tube shaft *-*
Screw shaft *17/6 25/6 28/6 30/6 38* Propeller *29.6.38* Stern tube *21.6.38* Engine seatings *-* Engines holding down bolts *12.10.38*
Completion of fitting sea connections *-* Completion of pumping arrangements *22.10.38* Engines tried under working conditions *25.10.38*
Crank shaft, Material *-* Identification Mark *-* Flywheel shaft, Material *-* Identification Mark *-*
Thrust shaft, Material *S.M. Steel* Identification Mark *420YDS 475.10.8.38* Intermediate shafts, Material *S.M. Steel* Identification Marks *420YDS 475.10.8.38*
Tube shaft, Material *-* Identification Mark *-* Screw shaft, Material *S.M. Steel* Identification Mark *-*
Identification Marks on Air Receivers *See Amsterdam report*

Is the flash point of the oil to be used over 150° F. *Yes*
Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with *Yes*
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *-* If so, have the requirements of the Rules been complied with *-*
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with *Not required*
Is this machinery duplicate of a previous case *Yes* If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery has been made and fitted in accordance to the Society's Rules, approved plans and Secretary's letters, material tested as required and workmanship good. The whole was found in a good working and manœuvring condition during a trial trip and I am of opinion that this vessel is eligible to be recorded in the Society's Register Book with +LMC 10-38 Oil Eng. C.L.*

The amount of Entry Fee .. £ *150.00* When applied for, *12.11.1938*
Special .. £ *35.00* When received, *2/12 1938*
Donkey Boiler Fee .. £ *35.00*
Travelling Expenses (if any) *-*
Committee's Minute *FRI 18 NOV 1938*
Assigned *+ LMC 10.38*
DB 100 lb Oil Eng



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