

No. C.2
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REPORT ON OIL ENGINE MACHINERY.

No. 16864
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Date of Submitting Report 14 March 1949 When handed in at Local Office 19 Port of Amsterdam
No. in Survey held at Hoengelo Date, First Survey 31 Oct '1945 Last Survey 1st March 1949
Reg. Book. Number of Visits 30

Single
on the Twin }
Triple } Screw Vessel
Quadruple }

"ALTAIR"

Tons }
Gross
Net

Built at West Harlepool By whom built Wm. Gray Yard No. 1136 When built
Engines made at Hoengelo By whom made Gebr. Hork & Co Engine No. 5650 When made 1949
Donkey Boilers made at _____ By whom made _____ Boiler No. _____ When made _____
Brake Horse Power 32.00 Owners Nievelt Goudriaan Port belonging to Holland
Nom. Horse Power as per Rule 196 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
Trade for which vessel is intended _____

OIL ENGINES, &c.—Type of Engines 2 C.C. & Hork. Hesselman 2 or 4 stroke cycle 2 Single or double acting Single
Maximum pressure in cylinders 5.2 / 9.1 Mean Indicated Pressure 5.65 / 9.1 Diameter of cylinders 27 3/4 Length of stroke 47 1/2 No. of cylinders 6 No. of cranks 6
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 9.50 Is there a bearing between each crank Yes
Revolutions per minute 115 Flywheel dia. 25 7/8 Weight 4390 kg Means of ignition Compression Kind of fuel used Castle oil
Crank Shaft, { Solid forged as per Rule
Semi built dia. of journals as fitted 450 Crank pin dia. 450 Crank Webs Mid. length breadth 0.30 Thickness parallel to axis
All built as fitted 100 Central hole Mid. length thickness 3.70 Thickness around eye-hole
Flywheel Shaft, diameter as per Rule _____ as fitted _____ Intermediate Shafts, diameter as per Rule 316 Thrust Shaft, diameter at collars as per Rule 330 as fitted _____
Tube Shaft, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 350 Is the { tube } shaft fitted with a continuous liner { screw }

Bronze Liners, thickness in way of bushes as per Rule _____ as fitted _____ Thickness between bushes as per Rule _____ as fitted _____ Is the after end of the liner made watertight in the propeller boss _____
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 end of the tube shaft _____ If so, state type _____
Propeller, dia. 457.2 Pitch _____ No. of blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet
Method of reversing Engines By air pressure as a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication forced Thickness of cylinder liners 50 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material _____ 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. _____ Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____
Bilge Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
Pumps connected to the Main Bilge Line { No. and Size _____
How driven _____
Is the cooling water led to the bilges _____ 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 _____ Power Driven 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, No. and size:—In Machinery Spaces _____ In Pump Room _____
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. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____
Small Auxiliary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____
What provision is made for first Charging the Air Receivers _____
Scavenging Air Pumps, No. 1 Rotary Diameter 700 Stroke 1440 Driven by Main Engine
Capacity = 2 x 273000 p. mnt.

Auxiliary Engines crank shafts, diameter as per Rule _____ as fitted _____ Position _____
Have the Auxiliary Engines been constructed under special survey _____ Is a report sent herewith _____



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