

REPORT ON OIL ENGINE MACHINERY

No. 4391

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Date of writing Report 31-3-1950 When handed in at Local Office 19 Port of Groningen
 No. in Survey held at Martenshoek Date, First Survey 24-6-49 Last Survey 29-3-1950
 Reg. Book. BERGÖ Number of Visits 14
 on the Single Screw vessel Triplo Tons Gross 599.48
Quadruple Net 369.37
 Built at Martenshoek By whom built Bodewes Scheepswerven Yard No. 377 When built 1950
 Engines made at Hazelgrove, Stockport By whom made Mirrlees, Bircherton & Day Ltd Engine No. 32992 When made 1948
 Donkey Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓
 Brake Horse Power 540 Owners Edgar Erikson Port belonging to Mariehamn
 M.N. Power as per Rule 119 NHP=110 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 Trade for which vessel is intended Ocean Trade

OIL ENGINES, &c. — Type of Engines Heavy Oil 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 750 lbs. □ Diameter of cylinders 13.75 Length of stroke 2.1 No. of cylinders 6 No. of cranks 6
 Mean Indicated Pressure 97 lbs. □ Ahead Firing Order in Cylinders 1, 3, 5, 6, 4, 2 Span of bearings, adjacent to the crank, measured from inner edge to inner edge 15.25 Is there a bearing between each crank yes Revolutions per minute 300
 Flywheel dia. 4'-6" Weight 2,460 Moment of inertia of flywheel (16 lbs. in² or Kg. cm.²) 3,270,000 Means of ignition Compr. Kind of fuel used Diesel
 Crank Shaft, Solid forged dia. of journals as per Rule Crank pin dia. 0.75 Crank webs Mid. length breadth 11.25 Thickness parallel to axis ✓
Semi built as fitted 9.25 Mid. length thickness 4.5 shrink Thickness around eyehole ✓
All built
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted 160 Thrust Shaft, diameter at collars as fitted
 Tube Shaft, diameter as per Rule Screw Shaft, diameter as fitted 168 Is the tube shaft fitted with a continuous liner no
as fitted as fitted as fitted
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes 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 ✓ Is an approved Oil Gland or other appliance fitted at the after end of tube shaft yes If so, state type Rubber ring Length of bearing in Stern Bush next to and supporting propeller 650
 Propeller, dia. 1940 Pitch 1190 No. of blades 4 Material Bronze whether moveable no Total developed surface 47%
 Moment of inertia of propeller (16 lbs. in² or Kg. cm.²) ✓ Kind of damper, if fitted ✓
 Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication forced Thickness of cylinder liners 7/8 Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes 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. one Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 Bilge Pumps worked from the Main Engines, No. one Diameter 4 3/4 Stroke 5 1/2 Can one be overhauled while the other is at work ✓
 Pumps connected to the Main Bilge Line No. and size one 4 3/4 x 5 1/2, one 6 5/8, one 22 How driven main engine aux. engine main engine
 Is 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 pumping arrangements ✓
 Ballast Pumps, No. and size one 6 5/8 Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 ram type 3 x 3 5/8 one rotary (tested)
 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 2 à 76 1/4 one à 63 1/4 one à 51 1/4 In pump room ✓
 In holds, &c. 2 à 2 1/2" forward, 2 à 3 1/2" aft. Independent Power Pump Direct Suctions to the engine room bilges, No. and size 2 à 76 1/4 1 à 51 1/4
 Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes yes Are the bilge suction pipes 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 yes
 Are all Sea Connections fitted direct on the skin of the Ship welded Are they fitted with valves or cocks yes 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 below
 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 ✓
 What pipes pass through the bunkers none 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 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 yes 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 No. of stages 2 diameters 5 7/8 stroke 5 1/2 driven by main engine
 Auxiliary Air Compressors, No. ✓ No. of stages ✓ diameters ✓ stroke ✓ driven by ✓
 Small Auxiliary Air Compressors, No. one No. of stages 2 diameters 1 1/2 stroke 7 1/2 driven by auxiliary engine
 What provision is made for first charging the air receivers Auxiliary engine hand started
 Scavenging Air Pumps, No. ✓ diameter ✓ stroke ✓ driven by ✓
 Auxiliary Engines crank shafts, diameter as per Rule approved No. one Position starboard
as fitted 8 7/8 Have the auxiliary engines been constructed under special survey no Is a report sent herewith yes

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