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REPORT ON OIL ENGINE MACHINERY.

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Date of writing Report 24 Nov 1950

When handed in at Local Office

19 Port of Singlungs

No. in Survey held at Singlungs

Date, First Survey 22 Nov 1950

Last Survey

Number of Visits 25

Reg. Book. Single on the Twin Screw vessel.

Triple

Quadruple

Built at Foxgol

Engines made at Singlungs

Donkey Boilers made at

Brake Horse Power 298 ✓ Owners

M.N. Power as per Rule 80 M.N.

Trade for which vessel is intended

OIL ENGINES, &c. — Type of Engines 17.17-N. Standard type 96V42 or 4 stroke cycle 4 ✓ Single or double acting Single ✓

Maximum pressure in cylinders 51.5 atm Diameter of cylinders 285 mm Length of stroke 420 mm No. of cylinders 6 ✓ No. of cranks 6 ✓

Mean Indicated Pressure 6.9 atm 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 358 mm ✓ Is there a bearing between each crank yes Revolutions per minute 300 ✓

Flywheel dia. 1200 mm Weight 1100 kg Moment of inertia of flywheel (lbs. in² or Kg.cm.²) 1000 kg/cm² Means of ignition pre-chamber Kind of fuel used state oil or test coal

Crank Shaft, Solid forged dia. of journals as per Rule ✓ Crank pin dia. 170 mm ✓ Crank webs Mid. length breadth 280 mm Thickness parallel to axis ✓ Crank Shaft, Semi built dia. of journals as fitted 170 mm ✓ Crank webs Mid. length thickness 89.5 mm shrunk Thickness around eye hole ✓ All built

Flywheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as per Rule ✓ Thrust Shaft, diameter at collars as per Rule ✓

Tube Shaft, diameter as per Rule ✓ Screw Shaft, diameter as per Rule ✓ Is the tube shaft fitted with a continuous liner ✓

Bronze Liners, thickness in way of bushes as per Rule ✓ Thickness between bushes as per Rule ✓ 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 tube shaft ✓ If so, state type ✓ Length of bearing in Stern Bush next to and supporting propeller ✓

Propeller, dia. ✓ Pitch ✓ No. of blades ✓ Material ✓ whether moveable ✓ Total developed surface ✓ sq. feet

Moment of inertia of propeller (lbs. in² or Kg.cm.²) ✓ Kind of damper, if fitted

Method of reversing Engines compr air ✓ Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes ✓ Means of lubrication forced ✓ Thickness of cylinder liners 22.5 mm Are the cylinders fitted with safety valves yes ✓ Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water ✓ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being siphoned back to the engine ✓ Cooling Water Pumps, No. ✓ Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes ✓

Cooling water Pumps worked from the Main Engines, No. 2 ✓ Output each 14.5 m³/h Can one be overhauled while the other is at work yes ✓

Bilge 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 ✓ Main engine Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 x 3.75 m³/h

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

In holds, &c. ✓

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 brasscovering 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

Seavenging Air Pumps, No. ✓ diameter. ✓ stroke. ✓ No. ✓ Position. ✓ driven by

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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