

REPORT ON OIL ENGINE MACHINERY.

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on the } Single }
 Twin }
 Triple }
 Quadruple } Screw vessel *Miss Workman Colarbi yard No. 524. 534* Tons } Gross _____
 Net _____

Built at _____ By whom built _____ Yard No. _____ When built _____
 Engines made at *Glasgow* By whom made *British Auxiliary Ltd* Engine No. *171/173* When made *1934*
 Donkey Boilers made at _____ By whom made _____ Boiler No. _____ When made _____
 Brake Horse Power *32450 each hp.* Owners _____ Port belonging to _____
 Nom. Horse Power as per Rule *386* Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
 Trade for which vessel is intended _____

II. ENGINES, &c. Type of Engines *British Polar* 2 or 4 stroke cycle *2* Single or double acting *Single*
 Maximum pressure in cylinders *400 lbs* Diameter of cylinders *250%* Length of stroke *420%* No. of cylinders *6* No. of cranks *6*
 Mean Indicated Pressure *95*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *360%* Is there a bearing between each crank *Yes*
 Revolutions per minute *340* Flywheel dia. *1050%* Weight *.694 tons* Means of ignition *Comp.* Kind of fuel used *Distil oil*

Crank Shaft, dia. of journals } as per Rule *158%* Crank pin dia. *160%* Crank Webs } Mid. length breadth *214%* Thickness parallel to axis _____
 as fitted *160* Mid. length thickness *90* Thickness around eyehole _____

Flywheel Shaft, diameter } as per Rule *158%* Intermediate Shafts, diameter } as per Rule _____
 as fitted *160* as fitted _____ Thrust Shaft, diameter at collars } as per Rule _____
 as fitted _____ as fitted _____

Tube Shaft, diameter } as per Rule _____ Screw Shaft, diameter } as per Rule _____
 as fitted _____ as fitted _____ Is the } tube } shaft fitted with a continuous liner { _____
 screw }

Bronze Liners, thickness in way of bushes } as per Rule _____ Thickness between bushes } as per rule _____
 as fitted _____ 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 _____ 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
 Method of reversing Engines _____ Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication _____
Final Thickness of cylinder liners *195%* Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with
 non-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 _____

Cooling Water Pumps, No. *1 @ 120% x 60% each* Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____
 Bilge Pumps worked from the Main Engines, No. *None* 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 _____
 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 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 _____

Scavenging Air Pumps, No. *One DA* Diameter *720%* Stroke *240%* Driven by *Main*
 Auxiliary Engines crank shafts, diameter } as per Rule _____
 as fitted _____



