

REPORT ON OIL ENGINE MACHINERY.

No. 7356

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No. in Survey held at
Reg. Book.Date, First Survey 28-4-30 Last Survey 9-4-1931
Number of Visits 54Single
on the Twin } Screw vessel
Triple }
Quadruple }Tons { Gross
Net

built at Yama. By whom built Uraga Dockyard Co Yard No. 374 When built
Engines made at Yama. By whom made Mitsui Bussan Kaisha Engine No. 4000 When made 4-31
Donkey Boilers made at By whom made Boiler No. When made
Brake Horse Power 6000 Owners Port belonging to
Nom. Horse Power as per Rule 814.2 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which vessel is intended

IL ENGINES, &c. Type of Engines Mitsui B.W. Type 1974-STF-150 2 or 4 stroke cycle 4 Single or double acting Single
Maximum pressure in cylinders 42 Kg/cm² Diameter of cylinders 740 mm Length of stroke 1500 mm No. of cylinders 10 No. of cranks 10
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 1040 mm Is there a bearing between each crank Yes.
Revolutions per minute 115 Flywheel dia. 7.01 ft. Weight 1.968 tons Means of ignition Compression Kind of fuel used Heavy fuel oil
Crank Shaft, dia. of journals as per Rule 514.7 mm Crank pin dia. 525 mm Crank Webs Mid. length breadth about 860 mm Thickness parallel to axis
Flywheel Shaft, diameter as per Rule 15.99 Intermediate Shafts, diameter as per Rule 15.225 Thrust Shaft, diameter at collars as per Rule 15.99
Tube Shaft, diameter as fitted 16 1/2 inches Is the { screw } shaft fitted with a continuous liner { Yes }
Bronze Liners, thickness in way of bushes as per Rule 7/8" Thickness between bushes as per rule 5/8" + 1/32" 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 One length.
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 Direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication
forced Thickness of cylinder liners 53.5 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers not 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

Cooling Water Pumps, No. 2@275 tons per hour 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. 2 Diameter 160 mm Stroke 196 mm Can one be overhauled while the other is at work Yes

Pumps connected to the Main Bilge Line { No. and Size How driven }
Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size 2@125 tons per hour.

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
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

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
apartment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

On 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. 3 No. of stages 2 Diameters HP 280 / 320 mm Stroke 210 mm Driven by 3 Aux. Diesel Engines.
Small Auxiliary Air Compressors, No. 1 No. of stages 22 Diameters HP 156 / 2 1/2" Stroke 5" Driven by Hand.
Supercharging turbo blowers Capacity 265 m³/min Pressure 3 meters in water column Driven by Main Engine through Chain gear
Savenging Air Pumps, No. 1 as per Rule 166 mm
Auxiliary Engines crank shafts, diameter as fitted 180 mm

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule
Can the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver
High Pressure 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
Starting Air Receivers, No. Total cubic capacity Internal diameter thickness
Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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