

REPORT ON OIL ENGINE MACHINERY.

No. 5460

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No. in Survey held at Tama, Okayama-Ken. Date, First Survey 12th July Last Survey 15/9/1926. Reg. Book. Number of Visits 12.

on the ~~Triple~~ ^{Single} Screw vessel "NANIWA MARU"

Tons Gross 49.15 Net 45.75

Built at Tama. By whom built Mitsui Bussan Kaisha. Yard No. 136 When built 1926. Engines made at Amsterdam. By whom made N.V. Kromhout Myc. Engine No. 3605 When made 1926. Donkey Boilers made at -- By whom made -- Boiler No. -- When made -- Brake Horse Power 80 BHP Owners Rising Sun Petroleum Co. Kobe. Port belonging to Kobe. Nom. Horse Power as per Rule 23 Is Refrigerating Machinery fitted for cargo purposes -- Is Electric Light fitted Yes.

OIL ENGINES, &c. Type of Engines Kromhout Heavy Oil Engine. 2 stroke cycle Single ~~double~~ acting

Maximum pressure in cylinders No. of cylinders Diameter of cylinders No. of cranks Length of stroke

Span of bearings, adjacent to the Crank ~~measured~~ from inner edge to inner edge Is there a bearing between each crank

Revolutions per minute Fluctuation dia. ~~per Rule~~ Crank pin dia. ~~per Rule~~ Means of ignition Kind of fuel used

Crank Shaft, dia. of journals ~~per Rule~~ as fitted Crank webs ~~per Rule~~ as fitted Mid. length thickness Thickness parallel to axis shrunk Thickness around eyebolt

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

Tube Shafts, diameter ~~per Rule~~ as fitted Screw Shaft, diameter ~~per Rule~~ as fitted Is the ~~rod~~ screw shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes ~~per Rule~~ as fitted Thickness between bushes ~~per Rule~~ as fitted Is the after end of the liner made watertight in the

propeller boss Yes 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 No Length of Bearing in Stern Bush next to and supporting propeller 14 1/2"

Propeller, dia. 3'-6 1/2" Pitch 3'-0" No. of blades Four Material Bronze. whether Moveable No Total Developed Surface 5 sq. feet

Method of reversing Engines Gearing Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication

Mech. sight feed. Thickness of cylinder liners -- Are the cylinders fitted with safety valves No 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 mast. led up

Cooling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Bilge Pumps fitted to the Main Engines, No. One Diameter 80 m/m Stroke 40 m/m Can one be overhauled while the other is at work --

Pumps connected to the Main Bilge Line No. and Size One 80 m/m x 40 m/m How driven Engine driven

Ballast Pumps, No. and size One 5" dia. x 6" stroke. 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 Engine and Boiler Room Two @ 2" in Engine Room

In Holds, &c. One 2" bilge suction in Aft Peak. One 2" Hand Pump suction to fore peak.

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 Yes Are the Bilge Suctions in the Machinery Space

led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges No - strum boxes.

Are all Sea Connections fitted direct on the skin of the ship Yes 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 above.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel No Are the Blow Off Cocks fitted with a spigot and brass covering plate --

That pipes pass through the bunkers -- How are they protected --

That 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 ~~readily accessible~~ 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 -- 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. None 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. -- Diameter -- Stroke -- Driven by --

Auxiliary Engines crank shafts, diameter ~~per Rule~~ as fitted --

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

Can the internal surfaces of the receivers be maintained 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 ~~per Rule~~ ^{SEE AMSTERDAM REPORT DATED 17th MARCH 1926.} 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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