

# AUXILIARY REPORT ON OIL ENGINE MACHINERY.

No. 7835

Rpt. 4b

Date of writing Report 15<sup>th</sup> Nov 1928 When handed in at Local Office

Port of

Copenhagen

19 NOV 1928

No. in Survey held at  
Reg. Book.

Copenhagen

Date, First Survey 21<sup>st</sup> July

Last Survey 5<sup>th</sup> November 1928

Number of Visits 25

Single  
Twin  
Triple  
Quadruple  
Screw vessel

Disel Oil Engine designated "MITSUI 9."

Tons Gross  
Net

Built at  
Engines made at

Copenhagen

By whom built  
By whom made

Yard No. 1560 When built  
Engine No. 1561 When made 1928

Donkey Boilers made at  
Brake Horse Power 2 off at 150  
1 off - 100

By whom made

Boiler No. When made

Nom. Horse Power as per Rule

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Trade for which vessel is intended

IL ENGINES, &c. Type of Engines Vertical Disel Oil Engines. (Trunk type) 2 or 4 stroke cycle 4 Single or double acting Single

pressure in cylinders 35 kg/cm<sup>2</sup> Diameter of cylinders 310 mm Length of stroke 350 mm No. of cylinders 1 " 2 No. of cranks 1 " 2

earings, adjacent to the Crank, measured from inner edge to inner edge 364 mm Is there a bearing between each crank No

us per minute 400 Flywheel dia. 1240 mm Weight 2710 kg. Means of ignition Air compression Kind of fuel used Crude oil. Flash point above 150°F.

shaft, dia. of journals as per Rule 161.8 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth Circular 355 mm Thickness parallel to axis

as fitted 170.0 mm Mid. length thickness 95 mm Thickness around eyehole

el Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule

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

as fitted 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

as fitted boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

ner 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

liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after

the tube shaft Length of Bearing in Stern Bush next to and supporting propeller

ler, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet

d of reversing Engines Direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication

rication Thickness of cylinder liners 24 mm Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with

ducting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

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

Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

is connected to the Main Bilge Line No. and Size How driven

st Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size

o independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

s, No. and size:—In Machinery Spaces

lds, &c.

pendent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces

om easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks

hey 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

hey 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

t pipes pass through the bunkers How are they protected

t pipes pass through the deep tanks Have they been tested as per Rule

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

re 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

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

wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

in Air Compressors, No. No. of stages Diameters A. B. C. Stroke Driven by 2<sup>nd</sup> stage

uxiliary Air Compressors, No. 3 No. of stages 3 1 off Diameters 318-285-78 " Stroke 220 mm Driven by Auxiliary engines.

all Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by 3<sup>rd</sup> stage

Scavenging Air Pumps, No. Diameter Stroke Driven by

Auxiliary Engines crank shafts, diameter as per Rule as fitted Please see above.

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

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 3 off Cubic capacity of each 25 Litres Internal diameter 7 1/4 " thickness 3/8 "

Seamless, lap welded or riveted longitudinal joint Seamless Material Mild Steel Range of tensile strength 28.8-32.6 tons Working pressure by Rules 58.7 kg/cm<sup>2</sup>

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



