

REPORT ON OIL ENGINE MACHINERY.

No. 7819.2

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Port of Copenhagen

in Survey held at Book.

Copenhagen

Date, First Survey 9th December 1927. Last Survey 27th April 1928

Number of Visits 53.

on the ^{Single} Twin ^{Triple} Screw vessel

Tons ^{Gross} ^{Net}

built at ^{Samoa} Japan

By whom built Mitsui Bussan Kaisha

Yard No. 150 When built

engines made at Copenhagen

By whom made Akt. Burmeister & Wain Maskin og Koldsjageri

Engine No. 1439 When made 1928

Boilers made at

By whom made

Boiler No. When made

Horse Power 4200.

Owners

Port belonging to

Horse Power as per Rule 95/.

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

for which vessel is intended

ENGINES, &c.—Type of Engines Vertical Diesel Oil Engine (Cross head type) 2 or 4 stroke cycle 4 Single or double acting Single

m pressure in cylinders 35 kg/cm² Diameter of cylinders 630 mm = 24 3/8" Length of stroke 1100 mm = 43 5/16" No. of cylinders 2 x 8. No. of cranks 2 x 8.

bearings, adjacent to the Crank, measured from inner edge to inner edge 892 mm

Is there a bearing between each crank

ons per minute 135

Shaft, dia. of journals as per Rule 396.6 mm as fitted 398 mm

Crank pin dia. 393 mm

Crank Webs

Mid. length breadth 764 mm

Kind of fuel used Diesel oil, flash point 50° F.

as fitted 398 mm

Crank Webs

Mid. length thickness 246 mm

Thickness parallel to axis 266 mm

el Shaft, diameter as per Rule as fitted

Intermediate Shafts, diameter as per Rule as fitted

Thrust Shaft, diameter at collars as per Rule 11.81" as fitted 12 1/2"

shaft, diameter as per Rule as fitted

Screw Shaft, diameter as per Rule as fitted

Is the tube screw shaft fitted with a continuous liner

Liners, thickness in way of bushes as per Rule as fitted

Thickness between bushes as per Rule as fitted

Is the after end of the liner made watertight in the

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

he tube shaft

Length of Bearing in Stern Bush next to and supporting propeller

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

of reversing Engines Direct reversible Is a governor or other arrangement fitted to prevent racing of the engine when detached

Mean of lubrication

Thickness of cylinder liners 46 mm Are the cylinders fitted with safety valves

Are the exhaust pipes and silencers water cooled or lagged with

ducting 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

Water Pumps, No. 2 off. 225 tons. Centrifugal Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Pumps worked from the Main Engines, No. 2 off Diameter of tanks 160 mm Stroke 196 mm Can one be overhauled while the other is at work

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

Pumps, No. and size 1 off. 150 tons. Rotary wing pump. Lubricating Oil Pumps, including Spare Pump, No. and size 2 sets, each 2 off. Cog wheel pumps.

independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

No. and size:—In Machinery Spaces

&c.

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

the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Spaces

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

sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

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

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

es pass through the bunkers

How are they protected

es pass through the deep tanks

Have they been tested as per Rule

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

angement 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

ent to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

ir Compressors, No. 2 off. No. of stages 3 Diameters 750-675-150 mm Stroke 350 mm Driven by the main engines

ry Air Compressors, No. No. of stages Diameters Stroke Driven by

uxiliary Air Compressors, No. 1 off. No. of stages 2 Diameters 90-35 mm Stroke 120 mm Driven by hand

ging Air Pumps, No. Diameter Stroke Driven by

ry Engines crank shafts, diameter as per Rule as fitted

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

internal surfaces of the receivers be examined

What means are provided for cleaning their inner surfaces

a drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. 1 working for main engines 1-225 litres 13 (main engines) 1-358 mm

Cubic capacity of each 1-450 Internal diameter 1-450 mm thickness 1-25 mm

lap welded or riveted longitudinal joint lap welded. Material SM Steel. Range of tensile strength 36.7-37.8 kg/mm² Working pressure by Rules 1-49.3

Air Receivers, No. Total cubic capacity Internal diameter thickness

lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules



