

REPORT ON OIL ENGINE MACHINERY

No. 8222

22 APR 1930

Received at London Office

Writing Report 15th April 1930 When handed in at Local Office 16th April 1930 Port of

Copenhagen

Survey held at

Copenhagen

Date, First Survey 19th April 1929Last Survey 11th April 1930

Number of Visits 115

on the ^{Single} Twin ^{Motor} Triple ^{Screw} Vessel ^{Quadruple}Tons { Gross ✓
Net ✓

at Osaka

By whom built Messrs Osaka Iron Works Ltd.

Yard No. 1128B When built ✓

ines made at Copenhagen

By whom made Messrs A. S. Burmeister & Wain's

Engine No. 1628 When made 1929-30

key Boilers made at ✓

By whom made ✓

Boiler No. ✓ When made ✓

ce Horse Power 11,000

Owners ✓

Port belonging to ✓

Horse Power as per Rule 2190.6 Is Refrigerating Machinery fitted for cargo purposes ✓

Is Electric Light fitted ✓

de for which vessel is intended ✓

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

um pressure in cylinders 35 kg/cm² Diameter of cylinders 680 mm = 26 3/4" Length of stroke 600 mm = 63" No. of cylinders 2 x 8 No. of cranks 2 x 8

of bearings, adjacent to the Crank, measured from inner edge to inner edge 920 mm

Is there a bearing between each crank Yes

utions per minute 110 mm

Means of ignition Air compression Kind of fuel used Crude oil flash point about 150° F.

ik Shaft, dia. of journals as per Rule 491 mm

Mid. length breadth 850 mm

as fitted 495 mm

Crank pin dia. 530 mm

Crank Webs Mid. length thickness 288 mm

Wheel Shaft, diameter as per Rule

Thrust Shaft, diameter at collars as per Rule 441 mm

as fitted

as fitted 447 mm

e Shaft, diameter as per Rule

Is the tube screw shaft fitted with a continuous liner

as fitted

as fitted

Liners, thickness in way of bushes as per Rule

Is the after end of the liner made watertight in the

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

e 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

co 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

If so, state type Length of Bearing in Stern Bush next to and supporting propeller

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

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

lubrication Thickness of cylinder liners 65 mm Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

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

ng Water Pumps, No. 4 off. Centrifugal. 250 tons each. 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

ps 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 4 off. Rotary pumps. 200 tons each.

two 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

olds, &c.

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

ll 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

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

ey 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

ey 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

pipes pass through the bunkers How are they protected

at 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

he 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

a 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. 2 off to each engine No. of stages 3 Diameters 750-675-172 mm Stroke 600 mm Driven by the main engines

Auxiliary Air Compressors, No. 3 off No. of stages 3 Diameters 320-270-70 mm Stroke 370 mm Driven by the auxiliary engines

gency Air Compressor No. 1 off No. of stages 3 Diameters 210-176-45 mm Stroke 180 mm Driven by a 35 HP electric motor

all Auxiliary Air Compressors, No. 1 off No. of stages 2 Diameters 400-350 mm Stroke 250 mm Driven by a 180 HP electric motor

aving Air Pumps, No. Diameter Stroke Driven by

Auxiliary Engines crank shafts, diameter as per Rule 192 mm

as fitted 204 mm

Auxiliary Diesel Oil Engines, 3 off. 6 Cyl. 4 S.C.S.A. 490 BHP each. Cyl. diam. 330 mm. Stroke 600 mm.

each working a direct coupled 360 KW generator.

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

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

here a drain arrangement fitted at the lowest part of each receiver. Yes

Pressure Air Receivers, No. 3 off. 3 working for main engines. Internal diameter 450 mm. Thickness 20 mm.

Internal diameter 93/4 inches. Thickness 3/8 inches.

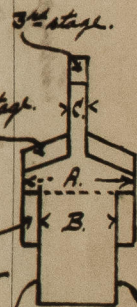
Internal diameter 46.5 mm. Thickness 95.5 kg/cm².

Working pressure by Rules 78.8

Working pressure by Rules

Working pressure by Rules

Working pressure by Rules



009182 -009191 -0016

