

REPORT ON OIL ENGINE MACHINERY.

No. 3488

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Port of Stockholm

No. in Survey held at Sirkla, Sve. District Date, First Survey 11th March, 1929 Last Survey 5th Oct. 1931
Reg. Book.25183 on the Single
Twin
Triple
Quadruple
Screw vessel "KANLAON"Tons Gross 399
Net 170

Built at Hong Kong By whom built Hong Kong & Wampoa Dock Co. Ltd. Yard No. When built 1931
Engines made at Stockholm By whom made Thielbølager A/S Diesel Engine No. 80374 When made 1931
Donkey Boilers made at By whom made Boiler No. When made
Brake Horse Power 40 Owners E. Lopez Port belonging to Thailo P.I.
Nom. Horse Power as per Rule 17 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
Trade for which vessel is intended

EL ENGINES, &c.—Type of Engines Stationary Diesel Oil Engine [Type 1425] 2 stroke cycle Single or double acting
Maximum pressure in cylinders 35 kg/cm² Diameter of cylinders 250 mm Length of stroke 350 mm No. of cylinders 1 No. of cranks 1
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 407 mm Is there a bearing between each crank ✓
Revolutions per minute 300 Flywheel dia. 1400 mm Weight 1185 kg Means of ignition Compression Kind of fuel used Crude Oil
Crank Shaft, dia. of journals as per Rule 140 mm Crank pin dia. 155 mm Crank Webs Mid. length breadth 310 mm Thickness parallel to axis ✓
Flywheel is fitted on the crank shaft. Flywheel Shaft, diameter as per Rule 84 mm Mid. length thickness 84 mm Thickness around eyehole ✓
Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule
as fitted as fitted as fitted

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

Propeller boss 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 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 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication

Pumps Thickness of cylinder liners None fitted Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material 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. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

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

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

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

In 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

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

Are all Sea Connections fitted direct on the skin of the ship 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

How are they protected

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

compartment 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. None fitted 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

Exhausting Air Pumps, No. Diameter Stroke Driven by

Auxiliary Engines crank shafts, diameter as per Rule as fitted

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

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces mud hole 120 mm

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

High Pressure Air Receivers, No. None fitted Cubic capacity of each Internal diameter thickness

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

Working Air Receivers, No. Total cubic capacity 4.2 litres Internal diameter 340 mm Working pressure by Rules

Unless, lap welded or riveted longitudinal joint Material S.A. Steel Range of tensile strength 38 kg/cm² Working pressure by Rules

IS A DONKEY BOILER FITTED?

PLANS

See Secretary's letter
Approved plans forwarded herewith for Shuffling
(If not, state date of material)

If so, is a report now forwarded?

Receivers E 18.7.21

Separate Tanks

Donkey Boiler

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR

to be supplied and inspected, when machinery
is being fitted on ship.

The foregoing is a correct description,

Manufacturer.

During progress of work in shops - 11; 27 1929; 25; 2 & 5 1931
3; 8 8 10
During erection on board vessel - -
building 5
Total No. of visits

Dates of Examination of principal parts—Cylinders with Covers 2 & 5 31 Pistons 5 31 Reels Connecting rods 11, 27, 29, 31
10 10
Crank shaft 25, 5 31 Flywheel shaft Thrust shaft Intermediate shafts Tube rings
8 10
Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working conditions on ship 10
Crank shaft, Material S.A. Steel Identification Mark LLOYD'S MS 6079 Flywheel shaft, Material Identification Mark
K.A. 5-10-31
Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Mark
Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F.

Is this machinery duplicate of a previous case Yes If so, state name of vessel See Skm. report No 3307

General Remarks (State quality of workmanship, opinions as to class, &c.)

I am of opinion that this engine is of superior material and workmanship, and as it has been designed and constructed under Special Survey, I have respectfully to submit that it be approved as auxiliary to a classed main engine.

The amount of Entry Fee ... £ : : When applied for.
Special Survey in shop No 218-40 10
Donkey Boiler Fee ... £ : : When received.
Travelling Expenses (if any) £ : : 10

Committee's Minute

TUE. 27 FEB. 1934

Assigned

H. Y. Andersson
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation