

REPORT ON OIL ENGINE MACHINERY.

No. 3488

Received at London Office 10 OCT 1931

Date of writing Report 8th Oct. 1931 When handed in at Local Office 19 Port of Stockholm
No. in Survey held at Siska, Sve. District Date, First Survey 11th March, 1929 Last Survey 5th Oct. 1931
Reg. Book. 25183 on the Single Screw vessel "KANLAON" Tons Gross 399
Double Net 170

Built at Hong Kong By whom built Hong Kong & Wampoa Dock Co. Ltd. Yard No. 80374 When built 1931
Engines made at Stockholm By whom made Wahlbom & Alster-Diesel Engine No. 80374 When made 1931
Donkey Boilers made at Stockholm By whom made Wahlbom & Alster-Diesel Boiler No. 80374 When made 1931
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 Is Electric Light fitted

EL ENGINES, &c.—Type of Engines Stationary Diesel Oil Engines [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 210 mm Thickness parallel to axis ✓
The flywheel is fitted on the crank shaft. Flywheel Shaft, diameter as per Rule 150 mm Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule
as fitted as fitted as fitted as fitted

Tube Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube 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 Is the liner 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 Is an approved Oil Gland or other appliance fitted at the after
If two liners are fitted, is the shaft lapped or protected between the liners 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. 1 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

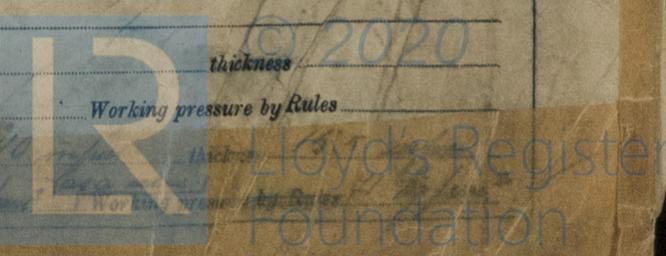
Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
Pumps, No. and size:—In Machinery Spaces Are the Bilge Suctions in the Machinery Spaces
In Holds, &c. Are they fitted with Valves or Cocks
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces
Are they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Are they fitted with Valves or Cocks
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Overboard Discharges above or below the deep water line
How are they protected Are the Blow Off Cocks fitted with a spigot and brass covering plate
Have they been tested as per Rule How are they protected

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Have they been tested as per Rule
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
If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork worked from

Main Air Compressors, No. None fitted No. of stages Diameters Stroke Driven by
Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by Driven by
Small Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by Driven by
Vacuuming 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 2020
Material Range of tensile strength Working pressure by Rules Working pressure by Rules
Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Low Pressure Air Receivers, No. Total cubic capacity Internal diameter Working pressure by Rules
Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules



4910-100800-81610

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

PLANS

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

E. 8-5-24

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 - 11/3, 27/8 1929; 25/8, 2 & 5/10 1931
During erection on board vessel - - -
Total No. of visits 5

Dates of Examination of principal parts - Cylinders with Covers 2 & 5/10 31 Pistons 5/10 31 Reels ✓ Connecting rods 11, 24, 29, 30
Crank shaft 25/8, 5/10 31 Flywheel shaft Thrust shaft Intermediate shafts Tube rings
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 K.A. 5-10-31 Flywheel shaft, Material Identification Mark
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 : :
Donkey Boiler Fee ... £ : : When received.
Travelling Expenses (if any) £ : : : 10

Committee's Minute

TUE. 27 FEB. 1934

Assigned

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



© 2020

Lloyd's Register Foundation