

16 MAY 1927

REPORT ON OIL ENGINE MACHINERY

No. 8594

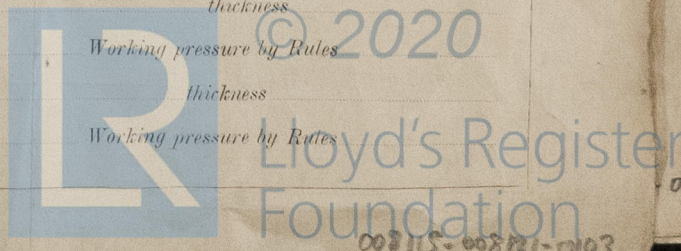
25 FEB 1927

pt. 4b

Report of Survey 21-2-1927 When handed in at Local Office 19 Port of Dunde
Date, First Survey 29-12-26 Last Survey 1-2-1927
Number of Visits SEVEN
on the Single Screw vessel M/S. "ALETTA"
Tons Gross Net
Built at Dunde By whom built Calder S. & S. C. Ltd. Yard No. 308 When built 1927
Engines made at By whom made Engine No. When made
Monkey Boilers made at By whom made Boiler No. When made
Horse Power Owners Anglo Saxon Petroleum Co. Ltd. Port belonging to
Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Type of Engines 2 or 4 stroke cycle Single or double acting
Maximum pressure in cylinders No. of cylinders Diameter of cylinders No. of cranks Length of stroke
No. of bearings, adjacent to the Crank, measured from inner edge to inner edge Is there a bearing between each crank
Revolutions per minute Flywheel dia. Weight Means of ignition Kind of fuel used
Crank Shaft, dia. of journals as per Rule as fitted Crank pin dia. Crank Webs Mid. length breadth Thickness parallel to axis
as fitted Mid. length thickness shrunk Thickness around eyehole
Wheel Shafts, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thrust Shaft, diameter at collar as per Rule as fitted
Screw Shaft, diameter as per Rule as fitted
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
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
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
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
of the tube shafts U.S. Packing Length of Bearing in Stern Bush next to and supporting propeller "A" BRACKETS 34"
propeller, dia. Pitch No. of blades Material whether Moveable STERN BUSH 29" Total Developed Surface sq. feet
Method of reversing Engines Is a governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication
Thickness of cylinder liners Are the cylinders fitted with safety valves Are the exhaust pipes and silencers water cooled or lagged with
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
Suction Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
Pumps fitted to 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
Fast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
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 Engine and Boiler Room
Holds, &c.
Independent 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 Space
from 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 Both
Key fixed sufficiently high on the ship's side to be seen without lifting the standard plates Are the Overboard Discharges above or below the deep water line
Key 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
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
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
Good vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
Air Compressors, No. No. of stages Diameters Stroke Driven by
Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
Enging Air Pumps, No. Diameter Stroke Driven by
Auxiliary 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
The internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
Is a drain arrangement fitted at the lowest part of each receiver
Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness
Material Range of tensile strength Working pressure by Rules
Non Pressure Air Receivers, No. Total cubic capacity Internal diameter thickness
Material Range of tensile strength Working pressure by Rules



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

HYDRAULIC TESTS:—

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS					
" " COVERS					
" " JACKETS					
" " PISTON WATER PASSAGES					
MAIN COMPRESSORS—1st STAGE					
" " 2nd					
" " 3rd					
AIR RECEIVERS—STARTING					
" " INJECTION					
AIR PIPES					
FUEL PIPES					
FUEL PUMPS					
SILENCER					
" " WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for Shafting
(If not, state date of approval)

Receivers

Separate Tanks

Donkey Boilers

General Pumping Arrangements

Oil Fuel Burning Arrangements

SPARE GEAR

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

DEC. 1926. 24. 29. JAN. 1927. 7. 10, 18. 24. FEB. 1.
SEVEN

Dates of Examination of principal parts—Cylinders ✓ Covers ✓ Pistons ✓ Rods ✓ Connecting rods ✓
Crank shaft ✓ Flywheel shaft ✓ Thrust shaft ✓ Intermediate shafts ✓ Tube shaft ✓
Screw shaft ✓ Propeller ✓ Stern tube 24-1-27. Engine seatings ✓ Engines holding down bolts ✓
Completion of fitting sea connections 24-12-26 Completion of pumping arrangements ✓ Engines tried under working conditions ✓
Crank shaft, Material ✓ Identification Mark ✓ Flywheel shaft, Material ✓ Identification Mark ✓
Thrust shaft, Material ✓ Identification Mark ✓ Intermediate shafts, Material ✓ Identification Marks ✓
Tube shaft, Material ✓ Identification Mark ✓ Screw shaft, Material steel Identification Mark ✓
Is the flash point of the oil to be used over 150° F. ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

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

The vessel has proceeded to Amsterdam where the machinery is to be installed and examined under working condition

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 19.
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : 19.

Committee's Minute

Assigned

20 MAY 1927
See P.B. uph. attached

Engine Surveyor to Lloyd's Register of Shipping.



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Foundation