

REPORT ON OIL ENGINE MACHINERY

No. 10409⁶

Received at London Office

NOV 1926

Writing Report 30 October 1926 When handed in at Local Office

Port of AMSTERDAM

Survey held at AMSTERDAM Date, First Survey 11 February 25 Last Survey 2 October 1926

Number of Visits 25

on the ^{Single} ~~Twin~~ ~~Triple~~ Screw vessels Messrs. Palmer's Shipbuilding & Iron Co's Yard No. 2616 Tons ^{Gross} ~~Net~~

at Newcastle on Tyne By whom built Palmer's S.B. & I. Co. Yard No. - When built 19 -

engines made at Amsterdam By whom made Werkspoor Engine No. - When made 1926

Boilers made at - By whom made - Boiler No. - When made -

Horse Power 150 Owners Anglo-Saxon Petroleum Co., Lim. Port belonging to London. -

Horse Power as per Rule 42. - Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -

ENGINES, &c. Type of Engines One Auxiliary Diesel Engine 2 or 4 stroke cycle Single ~~or double~~ acting

Working pressure in cylinders 38 1/2 psi No. of cylinders 3 Diameter of cylinders 310 mm No. of cranks 1 Length of stroke 450 mm

of bearings, adjacent to the Crank, measured from inner edge to inner edge 430 mm Is there a bearing between each crank Yes

Revolutions per minute 250 Flywheel dia. 1600 mm Weight 3640 kg Means of ignition Magneto Kind of fuel used Diesel oil

Shaft, dia. of journals as per Rule 185 mm Crank pin dia. 185 mm Crank Webs Mid. length breadth 190 mm Thickness parallel to axis 100 mm

Intermediate Shafts, diameter as per Rule 185 mm Thrust Shaft, diameter at collars as per Rule -

Screw Shaft, diameter as per Rule - Is the tube shaft fitted with a continuous liner -

Liners, thickness in way of bushes as per Rule - Thickness between bushes as fitted - Is the after end of the liner made watertight in the stern tube -

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

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 -

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 Not possible 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 insulating material -

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 -

Lubricating Oil Pumps, including Spare Pump, No. and size -

Oil Cooler - Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps, No. and size: - In Engine and Boiler Room -

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

Are the Bilge Suctions in the Machinery Space 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 -

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 -

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 -

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

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

Auxiliary Air Compressors, No. - No. of stages - Diameters - Stroke - Driven by -

Engining Air Pumps, No. - Diameter - Stroke - Driven by -

Auxiliary Engines crank shafts, diameter as per Rule - as fitted - as above.

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

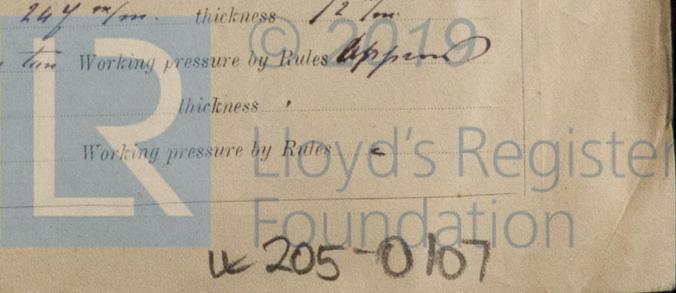
Are the internal surfaces of the receivers be examined - Yes. What means are provided for cleaning their inner surfaces - with Steam

Shipping Pressure Air Receivers, No. 1 Cubic capacity of each 60 L Internal diameter 264 mm thickness 12 mm

Material Steel Range of tensile strength 28/32 ton Working pressure by Rules Appended

Shipping 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	7. 6. 26	38 Atm	45 Atm	Lloyd's 20942. 65. 46	Good
" " COVERS	"	"	"	T.S.B. 7. 6. 26	Do
" " JACKETS	7. 6. 26	15 Atm	45 Atm	"	Do
" " PISTON WATER PASSAGES	"	"	"	"	"
MAIN COMPRESSORS—1st STAGE	31. 5. 26	65 Atm	130 Atm	F.B. 31. 5. 26	Do
" " 2nd "	31. 5. 26	8 Atm	16 Atm	F.B. 31. 5. 26	Do
" " 3rd "	"	"	"	"	"
AIR RECEIVERS—STARTING	25. 2. 26	65 Atm	130 Atm	cr: 22	Do
" " INJECTION	"	"	"	Lloyd's Seal	"
AIR PIPES	31. 5. 26	65 Atm	130 Atm	2130 lbs.	Do
FUEL PIPES	31. 5. 26	65 Atm	130 Atm	w.p. 996 lbs.	Do
FUEL PUMPS	31. 5. 26	65 Atm	130 Atm	L.L. 25. 2. 26	Do
SILENCER	31. 5. 26	"	"	"	"
" " WATER JACKET	"	"	"	"	"
SEPARATE FUEL TANKS	"	"	"	"	"

PLANS. Are approved plans forwarded herewith for Shafting Repaired Receivers in London Separate Tanks Office
(If not, state date of approval) 24/12/26.
 Donkey Boilers General Pumping Arrangements Oil Fuel Burning Arrangements

SPARE GEAR Please See List attached to Report.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 11/2, 9/3, 10/3, 24/3, 31/3, 31/3, 4/4, 28/4, 3/5, 19/5, 24/5, 2/6, 2/6, 9/6, 14/6, 1925
 During erection on board vessel -- 1/1, 14/1, 2/2, 10/2, 14/2, 28/2, 12/3, 31/3, 4/4, 19/4.
 Total No. of visits _____
 Dates of Examination of principal parts—Cylinders 5/5.15 - 7/6.26 Covers Pistons 5/5.15 - 7/6.26 Rods Connecting rods 2/5.25 -
 Crank shaft 14/4.16 - 29/4.26 Flywheel shaft Thrust shaft Intermediate shafts Tube shaft
 Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts
 Completion of filling sea connections Completion of pumping arrangements Engines tried under working conditions
 Crank shaft, Material Steel Identification Mark Lloyd's 326. J.C.D. Flywheel shaft, Material Identification Mark
 Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Marks
 Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F. Yes
 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 engines have been built under Special Survey in accordance with the Rules and Secretary's letter; workmanship good; machinery put under full working conditions with satisfactory results.

The amount of Entry Fee ... £ : : When applied for,
 Special ... £ 420 : : 19.
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ 6 : : 22/10 1926.

T. N. Kemble
 Engineer Surveyor to Lloyd's Register of Shipping



Committee's Minute
 Assigned

Certificate (if required) to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)