

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

FRI. 22 SEP. 1922

Date of writing Report 25<sup>th</sup> Aug. 1922 When handed in at Local Office 21<sup>st</sup> Sep. 1922 Port of Southampton  
 No. in Survey held at Portsmouth Date, First Survey 17/2/21 Last Survey 8<sup>th</sup> Sept. 1922  
 Reg. Book. on the S.S. "Robia" now "Murex" (Number of Visits 62)  
 Built at Portsmouth By whom built H. M. Dockyard Yard No. 4 Tons { Gross 5830.42  
 Engines made at Portsmouth By whom made H. M. Dockyard Engine No. 1922 Net 3400.34  
 Boilers made at - do - By whom made - do - Boiler No. 1922 when made 1922  
 Registered Horse Power 523 Owners Anglo Saxon Petroleum Co. Port belonging to Anglo Saxon Petroleum Co.  
 Nom. Horse Power as per Rule 523 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

## ENGINES, &amp;c.—Description of Engines

Triple expansion  
 Dia. of Cylinders 27, 45, 74 Length of Stroke 48 Revs. per minute 78 No. of Cylinders 3 No. of Cranks 3  
 Dia. of Crank shaft journals as per rule 14.06 Dia. of Crank pin 14 1/4 Crank webs as per rule 13.39 Mid. length breadth shrunk Thickness parallel to axis 9 1/4  
 Diameter of Thrust shaft under collars as per rule 14.06 Diameter of Tunnel shaft as fitted 14 1/2 Diameter of Screw shaft as per rule 14.82 Thickness around eye-hole 6 3/8  
 Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made watertight in the propeller boss Yes  
 If the liner is in more than one length are the joints burned Yes 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 Yes  
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated No  
 Length of Stern Bush 5'-6" Diameter of Propeller 14'-5"  
 Pitch of Propeller 16'-9" No. of Blades 4 State whether Moveable No Total Surface 98 square feet.  
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 4" Stroke 26" Can one be overhauled while the other is at work Yes  
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4 1/2" Stroke 26" Can one be overhauled while the other is at work Yes  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 1 Meir's duplex 8" x 10 1/2" x 21" 1 Meir's 5 1/2" x 7 1/2" x 15"  
 No. and size of Pumps connected to the Main Bilge Line One 8" x 9" x 10"  
 No. and size of Ballast Pumps One 6 x 7 x 10 forward No. and size of Lubricating Oil Pumps, including Spare Pump Yes  
 Are two independent means arranged for circulating water through the Oil Cooler Yes No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 5 of 3 1/2" and in Holds, &c. 2 of 3 1/2" in for "cargo hold", 2 of 2" in for "ballast pump room", 1 of 3 1/2" in for "peak tank", 3 of 4" in cargo pump room, 2 of 4" in for "afterdamp", 2-3 "girders in after afterdamp."  
 No. and size of Main Water Circulating Pump Bilge Suctions One of 10" dia. No. and size of Donkey Pump Direct Suctions Yes  
 to the Engine Room Bilges one 3 1/2" suction Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes  
 Are all connections with the sea direct on the skin of the ship Yes escape there Are they Valves or Cocks Both main below, Yes  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line below—above  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes  
 What Pipes are carried through the bunkers Heating Coils How are they protected Wooden floor boards  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 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 Yes Is the Screw Shaft Tunnel watertight No tunnel Is it fitted with a watertight door Yes worked from Yes

MAIN BOILERS, &c.—(Letter for record S)

Is Forced Draft fitted Yes No. and Description of Boilers 3 single ended Total Heating Surface of Boilers 7668 Working Pressure 180 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? YesIS A DONKEY BOILER FITTED? YesIf so, is a report now forwarded? Yes

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

Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes

General Pumping Arrangements

Oil fuel Burning Piping Arrangements S.S. "Murex"

## SPARE GEAR. State the articles supplied:—

2 bolts & nuts for top & bottom ends and main bearings,  
one set of coupling bolts, one set of feed & bilge pump  
valves, one set of piston rings & springs, assorted bolts & nuts, dia.  
of various sizes.  
Also one propeller, screw shaft & one section of crank shaft.

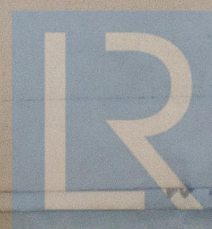
The foregoing is a correct description

R. D. Nelson

TUE. OCT. 3 1922

FRI. MAR. 2 1923

Manufacturer.



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