

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27 OCT 1927
 of writing Report 26. 10. 1927 When handed in at Local Office 26. 10. 1927 Port of MIDDLESBROUGH.
 in Survey held at MIDDLESBROUGH. Date, First Survey 18. 3. 24 Last Survey 25. 10. 1927
 7 Sup on the T.W. se. "PERIJA" (Number of Visits 48)
 Tons { Gross 2650.
 Net 1520.
 lt at Newcastle By whom built Palmers S.B. Co. Yard No. 976. When built 1927.
 rines made at MIDDLESBROUGH By whom made Richardsons, Westgarth Engine No. 2573 when made 1927.
 lers made at MIDDLESBROUGH By whom made . do. Boiler No. 2573. when made 1927.
 istered Horse Power Owners Gulf Refining Co. Port belonging to Newcastle.
 n. Horse Power as per Rule 212. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.
 de for which Vessel is intended Carrying Petroleum in Bulk.

GINES, &c. Description of Engines Triple Expansion Twin Screw. Revs. per minute 130.
 of Cylinders 13 1/2. 23. 37. Length of Stroke 27. No. of Cylinders 6. No. of Cranks 6.
 ank shaft, dia. of journals as per Rule 7.21. Crank pin dia. 7 1/2. Crank webs Mid. length breadth 14 1/8. Thickness parallel to axis 4 3/4.
 as fitted 7 1/2. 6.84. Mid. length thickness 4 3/4. shrunk Thickness around eye-hole 3 7/16.
 ermediate Shafts, diameter as per Rule 4.21. Thrust shaft, diameter at collars as per Rule 8 1/2.
 as fitted 4.21. 8 1/2.
 e Shafts, diameter as per Rule 7.95. Is the { tube & screw } shaft fitted with a continuous liner Yes - both through
 as fitted 7.95. 8 1/2. stem tube & A bracket
 nze Liners, thickness in way of bushes as per Rule 9/16. Thickness between bushes as per Rule 11/16. Is the after end of the liner made watertight in the
 as fitted 9/16. 11/16. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner.
 ells, &c. Yes. Is the space charged with a plastic material insoluble in water and non-corrosive.
 he lin-r does not fit tightly at the part between the bearings in the stern tube. Is an approved Oil Gland or other appliance fitted at the after
 wo liners are fitted, is the shaft lapped or protected between the liners. A bracket shaft coated with Apexior.
 of the tube shaft No. Length of Bearing in Stern Bush next to and supporting propeller 2'-11".
 peller, dia. 9'-0". Pitch 9'-6". No. of Blades 4. Material Bronze whether Moveable No. Total Developed Surface 31.1 sq. feet
 d Pumps worked from the Main Engines, No. 2. Diameter 2 3/4". Stroke 14". Can one be overhauled while the other is at work Yes.
 e Pumps worked from the Main Engines, No. 2. Diameter 2 3/4". Stroke 14". Can one be overhauled while the other is at work Yes.
 d { No. and size 2 - 8 x 5 x 8 G.S. Duplex. Pumps connected to the { No. and size 1 - 9 x 10 x 10 Ballast.
 ps { How driven Steam Main Bilge Line How driven
 ast Pumps, No. and size 1 - 9 x 10 x 10. Lubricating Oil Pumps, including Spare Pump, No. and size
 wo independent means arranged for circulating water through the Oil Cooler. Suctions, connected to both Main Bilge Pumps and Auxiliary
 Pumps; - In Engine and Boiler Room 2 - 2 3/4"; 2 - 2 1/2".
 olds, &c.

n Water Circulating Pump Direct Bilge Suctions, No. and size 2 - 5". Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size 1 - 3 3/4". Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes.
 he 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.
 ll Sea Connections fitted direct on the skin of the ship Yes. Are they fitted with Valves or Cocks both.
 hey fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes. Are the Overboard Discharges above or below the deep water line above.
 hey 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.
 Pipes pass through the bunkers none. How are they protected.
 pipes pass through the deep tanks. Have they been tested as per Rule.
 ll Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes.
 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
 tment to another Yes. Is the Shaft Tunnel watertight none. Is it fitted with a watertight door worked from.

N BOILERS, &c. (Letter for record S.) Total Heating Surface of Boilers 4055 sq. ft.
 rced Draft fitted No. No. and Description of Boilers 2 S.E. Marine 258 Working Pressure 180 lbs.

A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

A DONKEY BOILER FITTED? No.

If so, is a report now forwarded?

NS. Are approved plans forwarded herewith for Shafting Main Boilers Yes. Auxiliary Boilers. Donkey Boilers.
 (If not state date of approval) General Pumping Arrangements Yes. Oil fuel Burning Piping Arrangements Yes.

RE GEAR. State the articles supplied: - As per Rule + 2 propellers; 2 sets H.P., M.P., L.P. piston
 gs; 1 set H.P. piston valve rings; 1 piston rod; 1 valve spindle; 2 sets piston rod & valve
 ale packing; 1 bottom end bush complete; 1 top end bush complete; 1 ecc. shaft; 1 feed
 p ram; 1 air pump rod; 1 set air pump valve; 40 condense tubes & 80 ferrules; 1 set feed
 a bilge pump valve seals; 2 bushes for pump guide bracket; 1 tail shaft; 1 impeller for
 rotating pump; 1 piston rod & guide shoe for circulating pump; 2 sets piston rings and
 6 and bottom end bushes for circulating pump.

The foregoing is a correct description,
 For RICHARDSONS, WESTGARTH & Co. LIMITED

Suppl. Clerk

Manufacturer.

MANAGING DIRECTOR



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 Foundation

010300-010308-0054

1927. Mar 18.23. Apr 1.6.14.20.27. May. 5.16.19.24.28. Jun 1.8.16.21.24.28.30. Jul 4.6.8.9.16.23.27. Aug 2.10.22.26. Sep. 5.9.15.16.19.20.21.23.27.30. Oct 5.7.8.11.12.13.14.25

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits 48

Dates of Examination of principal parts—Cylinders 9.9.27. Slides 27.9.27. Covers 27.9.27.

Pistons 27.9.27. Piston Rods 9.9.27. Connecting rods 27.9.27.

Crank shaft 26.8.27. Thrust shaft 27.9.27. Intermediate shafts ✓

Tube shaft ✓. Screw shaft 16.9.27. Propeller 16.9.27.

Stern tube 16.9.27. Engine and boiler seatings 5.10.27. Engines holding down bolts 12.10.27.

Completion of fitting sea connections

Completion of pumping arrangements 12.10.27. Boilers fixed 5.10.27. Engines tried under steam 26.10.27.

Main boiler safety valves adjusted 14.10.27. Thickness of adjusting washers Port 1 1/2" Stan. 1 1/2" 5 1/2"

Crank shaft material Steel Identification Mark LLOYDS NO 5416 D. 2.8.27 RDS Thrust shaft material Steel Identification Mark LLOYDS NO 5416 D. 27.9.27 RDS

Intermediate shafts, material ✓ Identification Mark ✓. Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material Steel Identification Mark LLOYDS NO 5416 D. 16.9.27 RDS Steam Pipes, material Copper. Test pressure 360 lbs. Date of Test 13.10.27

Is installation fitted for burning oil fuel Yes. Is the flash point of the oil to be used over 150°F. Yes.

Have the requirements of the Rules for carrying and burning oil fuel been complied with Yes.

Is this machinery duplicate of a previous case Yes. If so, state name of vessel 'Monagas' and 'Aragua'.

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

This machinery is duplicate of that fitted to steamers 'Monagas' and 'Aragua' see Ind. Rpts Nos 13027 and 13056.

The materials and workmanship are good.

This machinery has been built under special survey in accordance with the Rules and approved Plans, securely fitted aboard and tried with satisfactory results under steam and is, in my opinion, suitable for classification with record + L.M.C. 10.27 and notation "Fitted for oil fuel 10.27 F.P. above 150°F.

N.B. The A brackets of this vessel are fitted with Rubber bearings. See Sec. letter 8.9.27 and attached correspondence.

It is submitted that this vessel is eligible for THE RECORD. + LMC 10.27. CL.

Fitted for oil fuel 10.27. F.P. above 150°F.

JWD 28/10/27

JPR

M. J. Mac

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 4-0-0 When applied for, 26.10.1927

Special ... £ 53-0-0

Donkey Boiler Fee ... £ : : When received, 2.11.27

Travelling Expenses (if any) £ : :

Committee's Minute

TUES. 1 NOV 1927

CERTIFICATE WRITTEN

Assigned

J + L. M. C. 10.27 CL
Fitted for Oil Fuel 10.27 F.P. above 150°F



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