

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 8 DEC 1924

Date of writing Report 4th Dec 1924 When handed in at Local Office 4th Dec 1924 Port of Sunderland
 To. in Survey held at Sunderland Date, First Survey 22 July 24 Last Survey 27th Nov 1924
 Reg. Book. on the new steel S.S. "CABIMAS" (Number of Visits 21)
 Built at Garrow-on-Tyne By whom built Palmer Shipbuilding Co. Ltd Yard No. 952 Tons } Gross
 Engines made at Sunderland By whom made MacColl & Pollock Ltd Engine No. 343 when made 1924 } Net
 Boilers made at Sunderland By whom made MacColl & Pollock Ltd Boiler No. 343 when made 1924
 Registered Horse Power _____ Owners Gulf Refining Co. Ltd. Port belonging to Maracaibo
 Nom. Horse Power as per Rule 186 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion
 Dia. of Cylinders 19" 30" 49" Length of Stroke 36" Revs. per minute 85 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 9.88 as fitted 10.0 Dia. of Crank pin 10" Crank webs Mid. length breadth 14 3/4" Thickness parallel to axis 6 1/4"
 as per rule 9.88 as fitted 10 Diameter of Tunnel shaft as per rule not fitted as fitted not fitted Diameter of Screw shaft as per rule 10.45 as fitted 10 1/2" Thickness around eye-hole 4 7/8"
 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 _____ If the liner does not fit tightly at the part _____
 Between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive _____
 If two liners are fitted, is the shaft lapped or protected between the liners _____ Is an approved appliance fitted at the after end of the shaft to permit it being efficiently lubricated _____
 Length of Stern Bush 43" Diameter of Propeller 12' 6"
 Dia. of Propeller 13' 1/2" No. of Blades 4 State whether Moveable No. Total Surface 60.8 square feet.
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 2 3/4" Stroke 21" Can one be overhauled while the other is at work yes
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 2 3/4" Stroke 21" Can one be overhauled while the other is at work yes
 No. and size of power driven Feed and Bilge Auxiliary Pumps Feed M. 6x4"x6" - Bilge pumps as below.
 No. and size of Pumps connected to the Main Bilge Line Fore, one 6"x7"x12" Bilge & Ballast Pump - Aft, one 8"x9"x16" Bilge & Ballast Pump
 No. and size of Ballast Pumps one 8"x9"x10" aft No. and size of Lubricating Oil Pumps, including Spare Pump _____
 No. of independent means arranged for circulating water through the Oil Cooler _____ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Pumps;—In Engine and Boiler Room 4 @ 2 3/4" and in Holds, &c. Dry Sock 2 @ 2 1/4"

No. and size of Main Water Circulating Pump Bilge Suctions one - 5" No. and size of Donkey Pump Direct Suctions _____
 Engine Room Bilges one 3 3/4" 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 Are they Valves or Cocks both
 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 on water line
 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
 How are they protected _____
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

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 not so fitted Is it fitted with a watertight door _____ worked from _____
 IN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 3249 sq. ft.
 Forced Draft fitted No No. and Description of Boilers Two Cylindrical Marine Type Working Pressure 180 lbs.
 A REPORT ON MAIN BOILERS NOW FORWARDED? yes
 A DONKEY BOILER FITTED? No If so, is a report now forwarded? _____

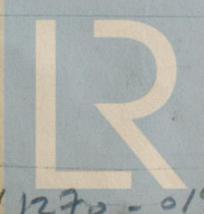
ANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers yes Auxiliary Boilers _____ Donkey Boilers _____
 Are approved plans forwarded herewith for Pumping Arrangements yes (Newcastle Ship report) Oil fuel Burning Piping Arrangements yes

ARE GEAR. State the articles supplied:— 2 Top end bolts and nuts, 2 Bottom end bolts & nuts
2 main bearing bolts and nuts, 1 Set of Coupling Bolts
1 Set of Feed Pump Valves & Seats, 1 Set of Bilge Pump Valves & Seats
Assorted bolts & nuts, 1 cut Assorted Iron Bar
1 Safety valve spring, 1 Main Feed and 1 Aux Feed Check valve
1 Bottom End Bearing, 1 Eccentric strap complete
1 Piston rod with nuts, 1 Air pump rod
25 Condenser Tubes, 13 Boiler Tubes
1 Cast Iron Propeller, 1 Spare Screw Shaft

The foregoing is a correct description,
 PER PRO MACCOLL & POLLOCK LTD

J.H. Pillay

Manufacturer.



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 Lloyd's Register
 Foundation

W 1270 - 0198

1924. July 22, 29 Aug 12, 14, 20 Sep 3, 12, 21 Oct 2, 9, 16, 24, 27, Nov 1, 7

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

Nov. 14, 15, 17, 18, 19, 24, 25, 27

11/12/24 see br.

Dates of Examination of principal parts - Cylinders 16-10-24 Slides 2-10-24
 Covers 12-9-24 Pistons 2-10-24 Rods 24-9-24
 Connecting rods 2-10-24 Crank shaft 3-9-24 Thrust shaft 24-10-24
 Tunnel shafts not so fitted Screw shaft 4-11-24 Propeller 4-11-24
 Stern tube 9-10-24 Engine and boiler seatings 19-11-24 Engines holding down bolts 25-11-24
 Completion of pumping arrangements 27-11-24 Boilers fixed 19-11-24 Engines tried under steam 27-11-24
 Completion of fitting sea connections 11-11-24 Stern tube 11-11-24 Screw shaft and propeller 14-11-24
 Main boiler safety valves adjusted 27-11-24 Thickness of adjusting washers Pt Blk 7/16 5/32 Star Blk 5/16
 Material of Crank shaft Ingot Steel Identification Mark on Do. LLOYDS N° 7329 L K 3-9-24
 Material of Thrust shaft Ingot Steel Identification Mark on Do. LLOYDS N° 343 G.A.H 24-10-24
 Material of Tunnel shafts ✓ Identification Marks on Do. ✓
 Material of Screw shafts Ingot Steel Identification Marks on Do. Working LLOYDS N° 343 G.A. 4-11-24 Spare LLOYDS N° 7396 G.A. 20-11-24
 Material of Steam Pipes Solid drawn Copper Test pressure 360 ✓ Date of Test 27-10-24 ✓
 Is an 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 No ✓ If so, state name of vessel ✓

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

The materials and workmanship are good
The machinery has been constructed under special survey and is eligible in my opinion for Classification and the record of + L.M.C 11-24
See Note ltr 31/12/24

The machinery has been tried under working conditions and the vessel has returned to Builder's yard for completion

It is submitted that this vessel is eligible for THE RECORD + LMC 12.24. CL.

Fitted for oil fuel 12.24. FP above 150°F.

Handwritten signatures and dates: J.W.D. 11/1/25, G.P.R.

The amount of Entry Fee ... £ 3 - 0 - 0 When applied for,
 Special ... £ 46 - 10 - 0 1st Decr. 19.24
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 15/25

George Anderson + L.S. Ash
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 2. JAN 1925
Assigned + L.M.C. 12.24 C.L.
Fitted for oil fuel 12.24
FP above 150°F.



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