

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

17 FEB 1920

Date of writing Report 23. 1. 1926 When handed in at Local Office 28. 1. 1926 Port of Greenock
 No. in Survey held at Port Glasgow Date, First Survey 9th January 1925 Last Survey 24th Jan'y 1926.
 Reg. Book. on the SS "PERLA" (Number of Visits 97)
 Built at Port Glasgow. By whom built The Clyde S B & E Co Ltd. Yard No. 344 When built 1926.
 Engines made at " By whom made " Engine No. 483 when made 1926.
 Boilers made at " By whom made " Boiler No. 483 when made 1926.
 Registered Horse Power ✓ Owners Navigazione Liberia Triestina Port belonging to Venice.
 Nom. Horse Power as per Rule 468. Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines

Triple expansion

Dia. of Cylinders 25"-41"-68" Length of Stroke 45" Revs. per minute 66 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 13.36 Dia. of Crank pin 13 5/8" Crank webs Mid. length breadth 25 3/8" Thickness parallel to axis 8 3/8"
 as fitted 13 5/8" Mid. length thickness 8 3/8" shrunk Thickness around eye-hole 5 7/8"
 Diameter of Thrust shaft under collars as per rule 13.36 Diameter of Tunnel shaft as per rule 12.12 Diameter of Screw shaft as per rule 14.26 Is the Screw shaft
 as fitted 13 5/8" as fitted 13" as fitted 14 1/2"
 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
 of it being efficiently lubricated No Length of Stern Bush 4'-9" Diameter of Propeller 18'-6"
 Pitch of Propeller 18'-6" No. of Blades 4 State whether Moveable No Total Surface 94 square feet.
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 24" 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" Stroke 24" Can one be overhauled while the other is at work Yes
 Total number and size of power driven Feed and Bilge Auxiliary Pumps Two Weirs pumps. 7" x 9 1/2" x 21"
 No. and size of Pumps connected to the Main Bilge Line One Duplex 10 1/4" x 10" x 10" Two Main eng pumps. 4" DIA x 24" S.A.
 No. and size of Ballast Pumps One Duplex 10 1/4" x 10" x 10" No. and size of Lubricating Oil Pumps, including Spare Pump NONE
 Are two independent means arranged for circulating water through the Oil Cooler NONE No. and size of suction connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 4 - 2 1/2" DIA. and in Holds, &c. Forward 2-3" dia 2-3 1/2" dia.
Aft 2-2 1/2" dia. 2-3" dia. 1-2 1/2" TUNNEL WELL. 2-4 1/2" DEEP TANK.

No. and size of Main Water Circulating Pump Bilge Suctions

One - 9"

No. and size of Donkey Pump Direct Suctions

to the Engine Room Bilges 2 - 4 1/2" DIA. 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 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 None 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
 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 Yes Is it fitted with a watertight door Yes worked from Upper deck.

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

Total Heating Surface of Boilers

6960 square feet.

Is Forced Draft fitted Yes No. and Description of Boilers 3 Single ended Working Pressure 200
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded? ✓

PLANS.

Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers NONE Donkey Boilers NONE
 (If not state date of approval)

General Pumping Arrangements YesOil fuel Burning Piping Arrangements NONE

SPARE GEAR.

State the articles supplied:—

2 Top end bolts and nuts. 2 bottom end bolts & nuts. 2 main bearing
bolts. 1 set of coupling bolts. 1 set of Feed and Bilge pump valves. 1 Valve and cage for each
main engine cylinder. 1 set of piston springs & quantity of bolts and nuts. Iron of
various sizes. etc.

The foregoing is a correct description,

CLYDE SHIPBUILDING & ENGINEERING CO. LIMITED,

Robert H. Wood

Director

Manufacturer.



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Lloyd's Register
Foundation

008417-008427-0262

(1925) Jan. 9. Feb. 12. 13. 23. Mar. 24. 16. 21. 24. 26. 30. Apr. 2. 3. 8. 10. 20. 24. 28. 30. May 7. 12. 18. 21. 25. June 2. 5. 9. 10. 11. 12. 15. 18. 19. 23. 25. 26. 30. July 2. 27.
 During progress of work in shops -- 28 Aug. 7. 11. 18. 25. 27. Sept. 1. 3. 7. 8. 10. 15. 18. 23. 29. Oct. 2. 6. 7. 12. 13. 15. 19. 23. 28. Nov. 2. 3. 4. 6. 11. 13. 14. 16. 25. 30. Dec. 2. 4. 9. 16. 19. 20. 27. 28. 30. (1926) Jan. 6. 8. 9. 11. 14. 15. 16. 18. 20. 22.
 Dates of Survey while building During erection on board vessel --- 24. 27.
 Total No. of visits 97

Dates of Examination of principal parts - Cylinders 10-9-25. VALVES 28-10-25.
 Covers 10-9-25. Pistons 10-9-25. Rods 4-11-25.
 Connecting rods 4-11-25. Crank shaft 13-8-25. Thrust shaft 13-10-25.
 Tunnel shafts 13-10-25. Screw shaft 13-10-25. Propeller 13-10-25.
 Stern tube 18-9-25. Engine and boiler seatings 18-9-25. Engines holding down bolts 19-12-25.
 Completion of pumping arrangements 15-1-26. Boilers fixed 19-12-25. Engines tried under steam 24-1-26.
 Completion of fitting sea connections 13-11-25. Stern tube 6-10-25. Screw shaft and propeller 13-11-25.
 Main boiler safety valves adjusted 15-1-26. Thickness of adjusting washers P $\frac{1}{16}$ S $\frac{13}{32}$. P $\frac{13}{32}$ S $\frac{1}{16}$. P $\frac{13}{32}$ S $\frac{13}{32}$.
 SUPERHEATERS Material of Crank shaft Open Hearth Ingot Steel. Identification Mark on Do. LLOYDS N^o 564 JD
 Material of Thrust shaft ditto Identification Mark on Do. LLOYDS N^o 564 JD
 Material of Tunnel shafts ditto Identification Marks on Do. LLOYDS N^o 564 JD
 Material of Screw shafts ditto Identification Marks on Do. LLOYDS N^o 564 JD
 Material of Steam Pipes Solid drawn Steel Test pressure 20-12-25 to 16-1-26. Date of Test 600 lbs.
 Is an installation fitted for burning oil fuel No. Is the flash point of the oil to be used over 150°F. ✓
 Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓
 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 machinery has been built under special survey, in accordance with the Rules and the approved plans. The materials and workmanship are good. The machinery has been securely fitted on board the vessel, and tried under full power with satisfactory results. The machinery is eligible, in my opinion, to be classed in the Register Book, and to have record of survey + LMC 1-26, with notation of TS 1-26 CL.

It is submitted that
 this vessel is eligible for
 THE RECORD + LMC 1. 26 FD. CL.

18/2/26.

The amount of Entry Fee ... £ 5 : 0 : 0 When applied for,
 Special ... £ 95 : 4 : 0 1. 12. 1. 1926
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : :
 When received, 17/2/26

J. A. away
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 16 FEB 1926

Assigned + LMC 1, 26

CERTIFICATE WRITTEN