

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 18958.

Date of writing Report 11-9-1928 When handed in at Local Office 12th Sept. 1928 Port of Greenock Received at London Office 19 SEP 1928

No. in Survey held at Port Glasgow Reg. Book on the SS "PREDESEDNIK KOPATTIC" Date, First Survey 9th December 1924 Last Survey 8th Sept 1928 (Number of Visits 52)

Built at Port Glasgow By whom built The Clyde S.B. & E. Co. Ltd. Yard No. 356. Tons Gross 1493. Net 1521. When built 1928. Engine No. 490 when made 1928. Boiler No. 490 when made 1928. Owners Jadranska Plovidba D.D. Port belonging to Split. Horse Power as per Rule 188. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes. for which Vessel is intended Foreign trade.

ENGINES, &c.—Description of Engines Triple expansion. No. of Cylinders 3. Revs. per minute 85. Length of Stroke 33". No. of Cranks 3. Diameter of Cylinders 14"-24"-45". Crank pin dia. 9". Crank webs Mid. length breadth 14". Mid. length thickness 5 7/8". Thickness parallel to axis 5 5/8". Thickness around eye-hole 4". Thrust shaft, diameter at collars as per Rule 8.96". as fitted 9".

Shafts, diameter as per Rule 8.53". as fitted 8 5/8". Screw Shaft, diameter as per Rule 9.53". as fitted 9 3/4". Is the tube screw shaft fitted with a continuous liner? YES. Liners, thickness in way of bushes as per Rule 18 7/8". as fitted 19 1/2". Thickness between bushes as per Rule 14.08". as fitted 12". Is the after end of the liner made watertight in the stern tube? YES.

Propeller, dia. 12'-0". Pitch 12'-0". No. of Blades 4. Material C.I. whether Moveable NO. Total Developed Surface 48 sq. feet. Is an approved Oil Gland or other appliance fitted at the after end of the propeller? YES. Pumps worked from the Main Engines, No. 2. Diameter 2 1/2". Stroke 18". Can one be overhauled while the other is at work YES.

Pumps connected to the Main Bilge Line. No. and size 1-4"x7"x4" DUPLIX. How driven STEAM. Lubricating Oil Pumps, including Spare Pump, No. and size None. Independent means arranged for circulating water through the Oil Cooler. Suctions, connected to both Main Bilge Pumps and Auxiliary Pumps, No. and size 2-3 1/2". 1-3". See list 11/10/28.

Water Circulating Pump Direct Bilge Suctions, No. and size 1-5 1/2". Independent Power Pump Direct Suctions to the Engine Room Bilges, size 1-3 1/2". Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? YES.

Sea Connections fitted direct on the skin of the ship? YES. Are they fitted with Valves or Cocks? BOTH. Are the Overboard Discharges above or below the deep water line? ABOVE. Are the Blow Off Cocks fitted with a spigot and brass covering plate? YES. How are they protected? W. I. PLATES. Have they been tested as per Rule? YES.

BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 3000 sq. ft. Draft fitted YES. No. and Description of Boilers 2. S. B. Working Pressure 180 LBS. REPORT ON MAIN BOILERS NOW FORWARDED? YES. DONKEY BOILER FITTED? NO.

Are approved plans forwarded herewith for Shafting YES. Main Boilers YES. Auxiliary Boilers YES. Donkey Boilers YES. General Pumping Arrangements YES. Oil fuel Burning Piping Arrangements YES.

E GEAR. State the articles supplied:—connecting rod bolts & nuts. 1 set of coupling bolts. 1 propeller shaft. 1 propeller. Piston " " " " 1 set of Air Feed & Bilge pump valves. Main bearing bolts & nuts. 4 Feed check valves. 1 safety valve spring. assorted bolts & nuts. Iron of various sizes.

The foregoing is a correct description, signed on behalf of

THE CLYDE SHIPBUILDING ENGINEERING CO., LIMITED. Manufacturer. H. Lamb. Secretary.



Dates of Survey while building

During progress of work in shops - - (1924) Dec. 9. 13. 30. (1928) Jan. 24. Feb. 10. 21. Mar. 21. 30. April 3. 9. 24. 30. May 3. 4. 8. 10. 14. 16. 21. 23. 24. 30. June 19. 25. 24. July 4. 12. 14. 19. 20. 24. 24. 30. Aug. 1. 2. 8. 9. 13. 14. 20. 21. 22. 23. 24. 24. 29. 30. 31. Sept. 4. 6. 8.

During erection on board vessel - - -

Total No. of visits 53.

Dates of Examination of principal parts—Cylinders 30-7-28. Slides 8-8-28. Covers 30-7-28.

Pistons 25-6-28. Piston Rods 8-8-28. Connecting rods 19-6-28.

Crank shaft 2-8-28. Thrust shaft 24-7-28. Intermediate shafts 24-7-28.

Tube shaft ✓. Screw shaft 25-6-28. Propeller 25-6-28.

Stern tube 25-6-28. Engine and boiler seatings 25-6-28. Engines holding down bolts 24-8-28.

Completion of fitting sea connections 25-6-28.

Completion of pumping arrangements 4-9-28. Boilers fixed 24-8-28. Engines tried under steam 8-9-28.

Main boiler safety valves adjusted 4-9-28. Thickness of adjusting washers P 1 3/32 S 3/8 P 1 1/32 S 3/8.

Crank shaft material O. H. I. S Identification Mark 626. J. D. Thrust shaft material O. H. I. S Identification Mark 2442. J. D.

Intermediate shafts, material O. H. I. S Identification Marks 1323345-6 J. D. Tube shaft, material ✓ Identification Mark ✓.

Screw shaft, material O. H. I. S Identification Mark 2442 J. D. Steam Pipes, material S. D. S Test pressure 600. Date of Test 30-8-28.

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 approved plans. The materials and workmanship are good. The machinery has been securely fitted on board the vessel, and tried under power with satisfactory results, and is eligible, in my opinion to be classed in the Register Book, with record of survey.

✠ L M C 9-28.

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.28 F.D. CL.

JSA. 24/9/28.

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 13<sup>th</sup> SEPT. 1928.

Special ... £ 44 : 0 : 0

Donkey Boiler Fee ... £ : : When received, 7. 11. 28.

Travelling Expenses (if any) £ ✓ : : 19.

J. Avey  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 18 SEP 1928

Assigned + LMC 9.28 72. W.M.

CERTIFICATE WRITTEN.



Certificate to be sent to

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