



The Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

18 August 2026

Invitation Letter

Call for Sponsors for the Test Development Group for the Proposed Mercedes M254 gasoline wear test (CEC TDG-L-122)

Ladies and Gentlemen,

CEC is launching a new Test Development Group (TDG-L-122) for the development of a Mercedes M254 gasoline wear test (pre-developed OEM test). You will find attached as Appendix 1 a short description of the test for reference. This document and the invitation letter will also be made available in the public part of the CEC Web Site.

This letter invites companies to express their interest in joining the TDG-L-122 and become potential sponsors of the test.

A first TDG meeting is planned for **24th (whole day) of September at APL in Landau, Germany** (online participation is possible). Information on accommodation and meeting room and other logistical details will follow to those who have expressed their interest.

At this stage, the cost to join the TDG is zero, and the sponsor cost will be clarified once we know the necessity of additional tests, the reimbursement of development costs, and the exact number of sponsors.

After this first stage, companies emailing confirmation of sponsorship of this new test are guaranteeing the following:

- To provide a prompt response to the questions asked by the CEC Secretariat to complete the administration / financial / legal process.
- To provide sponsorship of this test. ***The sponsorship fee per sponsor is estimated to be between 50.000 and 100.000 Euro depending on the number of necessary additional tests and the number of sponsors.***
- To promptly raise a Purchase Order noting that CEC considers this as a guarantee of payment and attendance at any of the Group's Meetings will not be permitted until this document has been received.
- To pay their sponsorship share to CEC promptly, using their shortest payment terms, stating these terms in the sponsorship confirmation email.
- To promptly sign and return a standard Letter of Intent (LoI). The LoI will be sent to all sponsors once the exact sponsorship fee is known.

Please email confirmation to the CEC Secretariat of your Company's intention to attend the meeting on 24 September and become a potential sponsor by Friday, 11 September 2026.

If you have any questions, please do not hesitate to contact myself or the CEC Secretariat.

Thank you for your continuing support of CEC.

Best regards,

Klaus Fieweger (CEC Chair)

CEC Secretariat

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Visit the CEC Web Site at www.cectests.org

M254 Wear Engine Test

Criteria	Assessment
Goal	Priority: Component wear, piston cleanliness, oil aging. Approval of Factory Fill and Service Fill engine oils.
Test Equipment	M254 E20 190KW with NAG3 ISG2 blocked (Start-Stop). Rod bearings: Z1/Z3 galvanic (series), Z2/Z4 polymer (top) and steel (bottom).
Data Status	Series data status
Test Program	500h high-load endurance run with start-stop (43Pt Evo2 DL Otto with start-stop). Increased water and oil temperature (TWA 105°C instead of 95°C) to increase wear. Oil change interval 250h instead of 170h, no oil refills allowed (Start MAX+0.5l).
Fuel	Fuel ROZ98 per DIN EN 228. ROZ 98 instead of ROZ 95 to bypass component protection (due to increased water temperature).
Reference Oils	Reference oil RL 007
Evaluation Metrics	Main and rod bearing wear, axial and radial piston ring wear, piston ring groove height, timing chain elongation, camshaft wear, piston ring rating, piston cleanliness, carbon contact area, ring sticking, oil aging, TAN, oxidation, nitration, viscosity.
Completion	Completed