
**Diesel fuel — Assessment of
lubricity using the high-frequency
reciprocating rig (HFRR) —**

**Part 1:
Test method**

*Carburant diesel — Évaluation du pouvoir lubrifiant au banc
alternatif à haute fréquence (HFRR) —*

Partie 1: Méthode d'essai

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by ISO/TC 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain, and powertrain fluids*, in collaboration with Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This fourth edition of ISO 12156-1 cancels and replaces the third edition (ISO 12156-1:2016), which has been technically revised after a user feedback survey. This revision includes the following changes:

- lessening of the requirements on reagents and correction of the ambient test conditions ([Figure 2](#)) to reflect the actual conditions met by participants in the inter-laboratory test program;
- the Annex containing details of the major changes (adding the camera and deletion of the humidity correction factor) between the second and third edition of this document has been removed; and
- [Annex A](#) has been populated with updated photographs of typical wear scars.

A list of all parts in the ISO 12156 series can be found on the ISO website.