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## **Petroleum products — Determination of the ignition quality of diesel fuels — Cetane engine method**

*Produits pétroliers — Détermination de la qualité d'inflammabilité  
des carburants pour moteurs diesel — Méthode cétane*



Reference number  
ISO 5165:2020(E)

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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

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## Contents

|   | Page      |
|---|-----------|
| <b>Foreword</b> .....   | <b>v</b>  |
| <b>1 Scope</b> .....  | <b>1</b>  |
| <b>2 Normative references</b> .....   | <b>1</b>  |
| <b>3 Terms and definitions</b> .....  | <b>2</b>  |
| <b>4 Principle</b> .....  | <b>3</b>  |
| <b>5 Reagents and reference materials</b> .....                                       | <b>4</b>  |
| <b>6 Apparatus</b> .....  | <b>5</b>  |
| 6.1 Test engine assembly.....   | 5         |
| 6.2 Instrumentation.....  | 5         |
| 6.3 Reference fuels dispensing equipment.....   | 7         |
| 6.4 Injector nozzle tester.....   | 7         |
| 6.5 Special maintenance tools.....  | 8         |
| <b>7 Sampling and sample preparation</b> .....  | <b>8</b>  |
| <b>8 Basic engine and instrument settings and standard operating conditions</b> ..... | <b>8</b>  |
| 8.1 Installation of engine equipment and instrumentation.....                         | 8         |
| 8.2 Engine speed.....   | 8         |
| 8.3 Valve timing.....   | 8         |
| 8.4 Valve lift.....   | 9         |
| 8.5 Fuel pump timing.....   | 9         |
| 8.6 Fuel pump inlet pressure.....   | 9         |
| 8.7 Direction of engine rotation.....   | 9         |
| 8.8 Injection timing.....   | 9         |
| 8.9 Injector nozzle opening pressure.....   | 9         |
| 8.10 Injection flow rate.....   | 9         |
| 8.11 Injector coolant passage temperature.....  | 9         |
| 8.12 Valve clearances.....  | 9         |
| 8.13 Oil pressure.....  | 9         |
| 8.14 Oil temperature.....   | 9         |
| 8.15 Cylinder jacket coolant temperature.....   | 10        |
| 8.16 Intake air temperature.....  | 10        |
| 8.17 Basic ignition delay.....  | 10        |
| 8.18 Cylinder jacket coolant level.....   | 10        |
| 8.19 Engine-crankcase lubricating oil level.....                                      | 10        |
| 8.20 Crankcase internal pressure.....   | 10        |
| 8.21 Exhaust back-pressure.....   | 10        |
| 8.22 Exhaust and crankcase breather system resonance.....                             | 10        |
| 8.23 Piston over-travel.....  | 10        |
| 8.24 Belt tension.....  | 10        |
| 8.25 Injector opening or release pressure.....  | 11        |
| 8.26 Injector spray pattern.....  | 11        |
| 8.27 Indexing handwheel reading.....  | 11        |
| 8.27.1 General.....   | 11        |
| 8.27.2 Basic setting of variable compression plug.....                                | 11        |
| 8.27.3 Setting handwheel micrometer drum and scale.....                               | 11        |
| 8.27.4 Setting handwheel reading.....   | 11        |
| 8.28 Basic compression pressure.....  | 12        |
| 8.29 Fuel pump lubricating oil level.....   | 12        |
| 8.30 Fuel pump timing gear-box oil level.....   | 12        |
| 8.31 Setting instrumentation reference pickups.....                                   | 13        |
| 8.32 Setting injector pickup gap.....   | 13        |
| <b>9 Engine qualification</b> .....   | <b>13</b> |

This is a preview of "ISO 5165:2020". [Click here to purchase the full version from the ANSI store.](#)

|           |  |           |
|-----------|--|-----------|
| 9.1       | Engine conformity.....                   | 13        |
| 9.2       | Checking performance on check fuels..... | 13        |
| 9.3       | Check in the case of nonconformity.....  | 13        |
| <b>10</b> | <b>Procedure.....</b>                    | <b>14</b> |
| 10.1      | General.....                             | 14        |
| 10.2      | Sample introduction.....                 | 14        |
| 10.3      | Fuel flow rate.....                      | 14        |
| 10.4      | Fuel injection timing.....               | 14        |
| 10.5      | Ignition delay.....                      | 14        |
| 10.6      | Equilibration.....                       | 14        |
| 10.7      | Handwheel reading.....                   | 14        |
| 10.8      | Reference fuel no. 1.....                | 14        |
| 10.9      | Reference fuel no. 2.....                | 15        |
| 10.10     | Number of blends of reference fuels..... | 16        |
| 10.11     | Repeat readings.....                     | 16        |
| <b>11</b> | <b>Calculation.....</b>                  | <b>16</b> |
| <b>12</b> | <b>Expression of results.....</b>        | <b>18</b> |
| <b>13</b> | <b>Precision.....</b>                    | <b>18</b> |
| 13.1      | General.....                             | 18        |
| 13.2      | Repeatability, $r$ .....                 | 18        |
| 13.3      | Reproducibility, $R$ .....               | 18        |
| 13.4      | Precision basis.....                     | 18        |
| <b>14</b> | <b>Test report.....</b>                  | <b>19</b> |
|           | <b>Bibliography.....</b>                 | <b>20</b> |

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## Foreword

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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](http://www.iso.org/directives)).

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This document was prepared by Technical Committee ISO/TC 28, *Petroleum and related products, fuels and lubricants from natural or synthetic sources*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 19, *Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 5165:2017), which has been technically revised. It is aligned with ASTM D613. The main changes to the previous edition are as follows:

- requirements for primary reference fuels (PRFs), secondary reference fuels (SRFs) and check fuels have been added;
- new low cetane primary reference fuel, pentamethylheptane (PMH), as an alternative to heptamethylnonane (HMN), have been added;
- new reporting requirements.

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](http://www.iso.org/members.html).