INTERNATIONAL STANDARD

ISO 22241-2

First edition
2006-10-15

Diesel engines — NOx reduction agent AUS 32 —

Part 2: Test methods

Moteurs diesel — Agent AUS 32 de réduction des NOx —

Partie 2: Méthodes d'essai

Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 22241-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 5, *Engine tests*.

This first edition cancels and replaces ISO/PAS 22241-2:2005, which has been technically revised.

ISO 22241 consists of the following parts, under the general title *Diesel engines — NOx reduction agent AUS 32*:

— *Part 1: Quality requirements*

— *Part 2: Test methods*

The following parts are under preparation:

— *Part 3: Packaging, transportation and storage*

— *Part 4: Refilling interface*

Annexes A to J form a normative part of this International Standard. Annex K is for information only.

Diesel engines — NOx reduction agent AUS 32 —

Part 2:
Test methods

1 Scope

This part of ISO 22241 specifies test methods required for determination of the quality characteristics of the NOx reduction agent AUS 32 (aqueous urea solution) specified in ISO 22241-1.

In the remaining parts of ISO 22241, the term “NOx reduction agent AUS 32” will be abbreviated to “AUS 32”.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 22241-1, *Diesel engines — NOx reduction agent AUS 32 — Part 1: Quality requirements*

ISO 3675, *Crude petroleum and liquid petroleum products — Laboratory determination of density — Hydrometer method*

ISO 3696, *Water for analytical laboratory use — Specification and test methods*

ISO 4259, *Petroleum products — Determination and application of precision data in relation to methods of test*

ISO 12185, *Crude petroleum and petroleum products — Determination of density — Oscillating U-tube method*

3 Specifications

Compliance with the limits specified in Table 1 of ISO 22241-1 shall be determined by the test methods specified in Annexes B through J of this part of ISO 22241.

Determination of the density shall be conducted in accordance with ISO 3675 or ISO 12185.

NOTE For the purposes of this International Standard, the terms “% (m/m)” and “% (V/V)” are used to represent the mass fraction and the volume fraction of a material respectively.

4 Sampling

Samples shall be taken in accordance with Annex A.