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NSAI Standards

Irish Standard
I.S. EN 14274:2013

Automotive fuels - Assessment of petrol and diesel quality - Fuel quality monitoring system (FQMS)

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Incorporating amendments/corrigenda/National Annexes issued since publication:

EN 14274:2013/LC:2013-03
EN 14274:2013/AC:2013

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This document replaces:
EN 14274:2003

This document is based on:	*Published:*
EN 14274:2013	25 February, 2013
EN 14274:2003	28 October, 2003

This document was published under the authority of the NSAI and comes into effect on:
25 February, 2013

ICS number:
75.160.20

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NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 14274:2013/AC

August 2013
Août 2013
August 2013

ICS 75.160.20

English version
Version Française
Deutsche Fassung

Automotive fuels - Assessment of petrol and diesel quality - Fuel quality monitoring system (FQMS)

Carburants pour automobiles - Evaluation de la qualité de l'essence et du carburant pour moteur diesel (gazole) - Système de suivi de la qualité des carburants (FQMS)

Kraftstoffe für Kraftfahrzeuge - Ermittlung der Qualität von Ottokraftstoff und Dieselkraftstoff - System zum Kraftstoffqualitätsnachweis (FQMS)

This corrigendum becomes effective on 7 August 2013 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 7 août 2013 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 7. August 2013 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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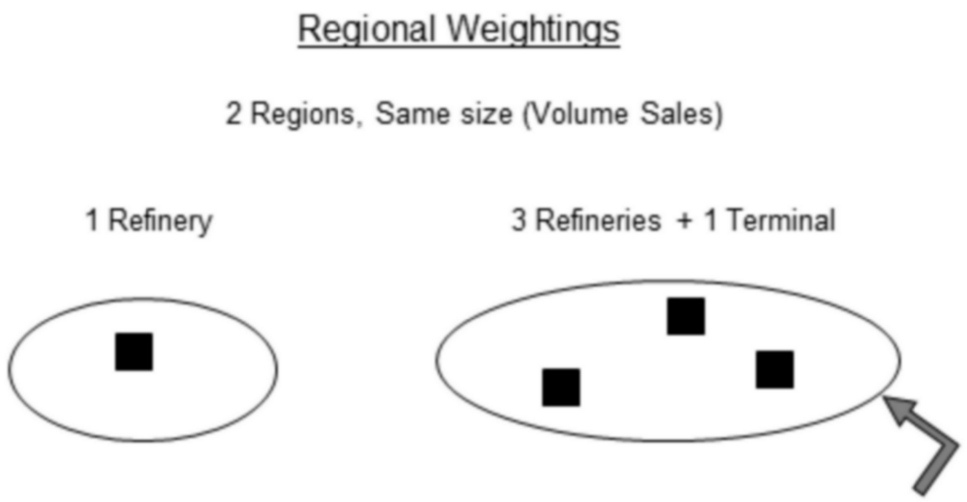
1 Modification to Annex E

Replace Figure E.1 with the following:



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Correction Notice

EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

Reference: **EN 14274:2013**

Title: Automotive fuels - Assessment of petrol and diesel quality - Fuel quality monitoring system (FQMS)

Work Item: 00019417

Brussels, 2013-03-20

With reference to the above, please include the following minor editorial correction(s) in the document related to:

the following language version(s) :
- ☒ English
- ☐ French
- ☐ German

for the following procedure :
- ☐ PQ/UQ
- ☐ Enquiry
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- ☐ 2nd Parallel Formal Vote (☐ ISO/ ☐ CEN Lead)
- ☐ UAP
- ☐ TC Approval
- ☐ 2nd TC Approval
- ☒ Publication
- ☐ Parallel Publication (☐ ISO/ ☐ CEN Lead)

TAN

It has been brought to our attention that this document, issued on 2013-02-13 (CEN Standards Publications Weekly Output Reference 2013/02/II) requires modification.

Figure E.1 is now complete and the reference to Table E.3 in the text in Annex E has been deleted.

Please find enclosed the updated English version.

We apologise for any inconvenience this may cause.

Form - DEL/FO004/Issue 1

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EUROPEAN STANDARD

NORME EUROPÉENNE

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EN 14274

February 2013

ICS 75.160.20

Supersedes EN 14274:2003

English Version

Automotive fuels - Assessment of petrol and diesel quality - Fuel quality monitoring system (FQMS)

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Kraftstoffe für Kraftfahrzeuge - Ermittlung der Qualität von Ottokraftstoff und Dieselkraftstoff - System zum Kraftstoffqualitätsnachweis (FQMS)

This European Standard was approved by CEN on 8 December 2012.

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Foreword

This document (EN 14274:2013) has been prepared by Technical Committee CEN/TC 19 “Gaseous and liquid fuels, lubricants and related products of petroleum, synthetic and biological origin”, the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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

This document supersedes EN 14274:2003.

This document had originally been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association. In line with the recent Amendments [3] and [4] to EU Directive 98/70/EC [1], [2], mainly the additional reporting requirement for manganese, the need to update the original document came forward.

This European Standard, which makes use of statistical reasoning, describes a fuel quality monitoring system (FQMS) which may be applied to assess quality of fuels being placed on the market in a European Member State in relation to the European Directive 98/70/EC [1] and its amendments, 2003/17/EC [2], 2009/30/EC [3] and 2011/63/EU [4]. For the purpose of this European Standard, each European Member State is regarded as the smallest unit for which the results of the monitoring system are representative.

Therefore, this European Standard cannot be used without considerable adjustment for the representative monitoring of fuel quality in a specific region nor for a specific distribution chain nor for policing purposes, as the statistical reasoning, which forms the basis for this European Standard, may not be valid for these purposes. The required adjustments for an extension of the monitoring system are rather complex. They are beyond the scope of this European Standard and are therefore not included here. The provisions in this European Standard may, however, in principle be extended to allow for additional purposes.

For several specific parameters, the European fuel specifications in EN 228 and EN 590 request that each country selects limiting values from a given set of values and specifies these country specific limiting values in the corresponding normative annex to EN 228 and EN 590 in order to adjust for geographic and climatic factors. These values may differ from country to country. Therefore, for these specific parameters, also the results obtained in this monitoring system will differ from country to country.

The minimum number of samples that are to be drawn is based on the information and comprehensive statistical analysis available at the time of publication of this European Standard. A statistical explanation on how the different statistical models and minimum samples numbers were achieved will be added as an informative annex to this document at a later stage. As more information becomes available, the number of samples required may change. For this reason this European Standard will be reviewed from time to time.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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1 Scope

This European Standard describes a fuel quality monitoring system (FQMS) for assessing the quality of petrol and automotive diesel fuel placed on the market in any of the Member States within the European Community.

European Directive 98/70/EC [1] requires that every separate nationally defined fuel grade should comply with one specification as defined in the Directive. Therefore, for each nationally defined fuel grade, there will be a corresponding European parent fuel grade. For instance, unleaded petrol grades placed on the market in Europe can be 91, 95, 98 RON petrol. See also the example discussed in 5.4.2.

Some basic background ideas behind the FQMS are given in Annex A.

Since the specifications for automotive fuels contain climatic related requirements, the FQMS is run twice a year, once during the winter period and once during the summer period. Information about the dates for the summer and winter periods in a specific country are defined in the country's national annex to EN 228 and EN 590. Fuel samples taken during transition periods shall not be included in the FQMS.

For the purposes of this FQMS, grades of petrol that constitute less than 10% of the total amount of petrol placed on the market in any one country, and grades of automotive diesel fuels that constitute less than 10% of the total amount of automotive diesel fuel dispensed in any country may require separate handling as described in Clause 5 of this European Standard.

2 Normative references

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

EN 228, *Automotive fuels — Unleaded petrol — Requirements and test methods*

EN 590, *Automotive fuels — Diesel — Requirements and test methods*

EN 14275, *Automotive fuels — Assessment of petrol and diesel fuel quality — Sampling from retail site pumps and commercial site fuel dispensers*

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

EN ISO/IEC 17025, *General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply:

3.1
fuel grade
specific automotive fuel quality of petrol or of diesel fuel for which there exists specifications in:

a) European Directive 98/70/EC [1] and and its subsequent amendments [2], [3] and [4]; or

b) national implementations of EN 228 and EN 590; or other EN automotive fuel standards, or

c) other national automotive fuel standards

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