



SLOVENSKI STANDARD
SIST CR 12787:1998
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Report on Diesel fuel lubricity

Status Report on Diesel fuel lubricity

Statusreport zur Schmierfähigkeit von Dieselkraftstoff

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Status report on Diesel fuel lubricity

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REPUBLIKA SLOVENIJA
MINISTRSTVO ZA ZNANOST IN TEHNOLOGIJO
Urad RS za standardizacijo in meroslovje
LJUBLJANA

Statusreport zur Schmierfähigkeit
von Dieselkraftstoff

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PREVZET PO METODI RAZGLASITVE

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This CEN REPORT has been prepared by Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products" and has been approved by CEN on 1997-01-17.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Rue de Stassart 36, B - 1050 Brussels

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Foreword

This CEN Report has been prepared by Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by the Netherlands Standardization Institute (NNI).

This CEN Report is issued in English only.

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Status Report on diesel fuel lubricity

Introduction

Following Directive 93/12/EEC, automotive diesel fuel marketed in the countries of the European Community shall, from October 1996 onward, have a maximum mass fraction of sulphur of 0,05 % instead of max. 0,2 %. The associated increased hydro treatment potentially affects the lubricity of the diesel fuel and this may lead to damage to fuel pumps.

To ascertain adequate performance of diesel engine cars when using low-sulphur diesel fuel, a limit, based on a reliable test method, has to be set for the diesel fuel lubricity.

In view of the present state of affairs, a European Standard giving the above test method and limit can not be available yet. Nonetheless some recognized and referable document, preferably with a CEN identification, is needed by October 1996, when the above mentioned Directive comes into force. CEN/TC 19 therefore pursues a CEN report, giving the present status of the consensus building on this issue.

This CEN Report is intended to serve as a common reference document in the CEN countries for a limited time.

SIST CR 12787:1998

1 Status report on a test method to assess the diesel fuel lubricity

In February 1995 CEN/TC 19 submitted a proposal for new work indicating the intention to deliver an EN giving a test method for the assessment of diesel fuel lubricity before October 1996. This new work was accepted as item 166 on the CEN/TC 19 work programme through Resolution BT C 33/1995 of the CEN Technical Board.

At the date of acceptance of the new work item, technical development work on a method to determine the lubricity of diesel fuel by high frequency reciprocating rig (HFRR) was in progress in several circles, both in Europe and in the United States. CEN/TC 19 therefore decided not to embark on own technical work, but to support the ongoing work with a view of adopting the results in due course.

It has meanwhile become clear that, in spite of a tremendous effort of all parties concerned, the intended method was, by July 1996, still very much in a technical development stage, with no version available yet of a technical integrity that would justify publication of an EN, or even a prEN.

Because practice calls for a test method to be available by October 1996 in a recognized document, suitable for reference by all parties concerned, CEN/TC 19 decided to select the best feasible test method, and identify this in a CEN Report as the advised test method.

On the advise of CEN/TC 19/WG 24 "Specification of automotive diesel", and endorsed by CEN/TC 19 through document CEN/TC 19 N 895, it was agreed that the test method best suitable as a common reference for the time being is the method given in the following CEC publication:

CEC F-06-A-96.

The test method given in this CEC reference is the best documented HFRR method with respect to consistency of the method description and given precision data, and it is available as an official, published document ¹⁾.

Further technical development on the HFRR method will continue, and as soon as this results in a method of adequate technical integrity to be published as European Standard, CEN/TC 19 will pursue the publication of such a standard.

As for the route, CEN/TC 19 aims at one standard, and one standard only for this world-widely needed method, i.e an ISO standard that can be adopted as EN ISO.

In ISO, an ISO/DIS giving the HFRR test method has been issued (ISO/DIS 12156-1), but the presently available version of this DIS was judged of insufficient consistency and technical integrity to serve as a common reference in CEN.

It is already agreed that work will continue in ISO, improving the presently available version of ISO(/DIS) 12156-1. In due course CEN/TC 19 will consider to adopt the ISO standard. Meanwhile all expertise available for this world-widely needed method can be concentrated on one level only.

2 Status report on a limit for the diesel fuel lubricity

The present state of consensus building on a limit, as clarified through document CEN/TC 19 N 895, does not allow for a limit to advise in this CEN Report.

1) Publication CEC F-06-A-96 is obtainable from: CEC, Madou Plaza-25th floor, Place Madou 1, B- 1210 Brussels, Belgium. Price indication is BEF 3000 (excl. P&P and bank charges).