

SLOVENSKI PREDSTANDARD

OSIST prEN ISO 4263-3:2004

julij 2004

Petroleum and related products - Determination of the ageing behaviour of inhibited oils and fuels - TOST test - Part 3: Anhydrous procedure for synthetic hydraulic fluids

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

SIST EN ISO 4263-3:2006

<https://standards.itih.ai/catalog/standards/sist/7d8c3f83-d596-4921-adbd-ef60273506e1/sist-en-iso-4263-3-2006>

ICS 75.120

Referenčna številka
OSIST prEN ISO 4263-3:2004(en)

April 2004

ICS

English version

**Petroleum and related products - Determination of the ageing
behaviour of inhibited oils and fuels - TOST test - Part 3:
Anhydrous procedure for synthetic hydraulic fluids**

Pétrole et produits connexes - Détermination du
comportement au vieillissement des fluides et huiles
inhibés - Essai TOST - Partie 3: Méthode pour les huiles
pour engrenages industriels

This draft European Standard is submitted to CEN members for parallel enquiry. It has been drawn up by the Technical Committee CEN/TC 19.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (prEN ISO 4263-3:2004) has been prepared by Technical Committee ISO/TC 28 "Petroleum products and lubricants" in collaboration with Technical Committee CEN/TC 19 "Petroleum products, lubricants and related products", the secretariat of which is held by NEN.

This document is currently submitted to the parallel Enquiry.

Endorsement notice

The text of ISO/DIS 4263-3:2004 has been approved by CEN as prEN ISO 4263-3:2004 without any modifications.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 4263-3:2006](https://standards.iteh.ai/catalog/standards/sist/7d8c3f83-d596-4921-adbd-ef60273506e1/sist-en-iso-4263-3-2006)

<https://standards.iteh.ai/catalog/standards/sist/7d8c3f83-d596-4921-adbd-ef60273506e1/sist-en-iso-4263-3-2006>



DRAFT INTERNATIONAL STANDARD ISO/DIS 4263-3

ISO/TC 28

Secretariat: **ANSI**

Voting begins on:
2004-04-29

Voting terminates on:
2004-09-29

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test —

Part 3: Anhydrous procedure for synthetic hydraulic fluids

Pétrole et produits connexes — Détermination du comportement au vieillissement des fluides et huiles inhibés — Essai TOST —

Partie 3: Méthode anhydre pour les fluides hydrauliques synthétiques

ICS 75.120

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

ISO/CEN PARALLEL ENQUIRY

The CEN Secretary-General has advised the ISO Secretary-General that this ISO/DIS covers a subject of interest to European standardization. **In accordance with the ISO-lead mode of collaboration as defined in the Vienna Agreement, consultation on this ISO/DIS has the same effect for CEN members as would a CEN enquiry on a draft European Standard.** Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month FDIS vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

Pour accélérer la distribution, le présent document est distribué tel qu'il est parvenu du secrétariat du comité. Le travail de rédaction et de composition de texte sera effectué au Secrétariat central de l'ISO au stade de publication.

THIS DOCUMENT IS A DRAFT CIRCULATED FOR COMMENT AND APPROVAL. IT IS THEREFORE SUBJECT TO CHANGE AND MAY NOT BE REFERRED TO AS AN INTERNATIONAL STANDARD UNTIL PUBLISHED AS SUCH.

IN ADDITION TO THEIR EVALUATION AS BEING ACCEPTABLE FOR INDUSTRIAL, TECHNOLOGICAL, COMMERCIAL AND USER PURPOSES, DRAFT INTERNATIONAL STANDARDS MAY ON OCCASION HAVE TO BE CONSIDERED IN THE LIGHT OF THEIR POTENTIAL TO BECOME STANDARDS TO WHICH REFERENCE MAY BE MADE IN NATIONAL REGULATIONS.

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN ISO 4263-3:2006](https://standards.iteh.ai/catalog/standards/sist/7d8c3f83-d596-4921-adbd-ef60273506e1/sist-en-iso-4263-3-2006)

<https://standards.iteh.ai/catalog/standards/sist/7d8c3f83-d596-4921-adbd-ef60273506e1/sist-en-iso-4263-3-2006>

Copyright notice

This ISO document is a Draft International Standard and is copyright-protected by ISO. Except as permitted under the applicable laws of the user's country, neither this ISO draft nor any extract from it may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission being secured.

Requests for permission to reproduce should be addressed to either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Reproduction may be subject to royalty payments or a licensing agreement.

Violators may be prosecuted.

Contents

Foreword.....	v
1 Scope	1
2 Normative references	1
3 Principle.....	2
4 Reagents and materials	2
4.1 Water	2
4.2 Heptane.....	2
4.3 Acetone.....	2
4.4 Propan-2-ol.....	2
4.5 Oxygen.....	2
4.6 Cleaning solutions.....	2
4.6.1 Strong oxidizing acid solution	2
4.6.2 Surfactant cleaning fluid.....	3
4.6.3 Laboratory detergent.....	3
4.7 Catalyst wires.....	3
4.8 Abrasive cloth	3
4.9 Absorbent cotton.....	3
5 Apparatus	3
5.1 Oxidation cell	3
5.2 Heating bath	3
5.3 Flowmeter.....	3
5.4 Temperature-measurement devices.....	5
5.5 Wire-coiling mandrel	5
5.6 Oxygen-supply tube	5
5.7 Aliquot-removal devices	5
5.8 Aliquot containers	5
5.9 Sampling tube	5
5.10 Stopper	5
5.11 Sampling tube holder	5
5.12 Sampling tube spacer	5
6 Sampling.....	8
7 Preparation of materials and apparatus.....	8
7.1 Cleaning catalysts	8
7.2 Preparation of catalyst coil.....	9
7.3 Catalyst storage.....	8
7.4 Cleaning new glassware	9
7.5 Cleaning used glassware.....	9
7.6 Cleaning aliquot-removal device	9
8 Procedure	9
9 Calculation	11
10 Expression of results	11
11 Precision.....	11
11.1 General.....	11
11.2 Repeatability, r	12
11.3 Reproducibility, R	12
11.4 Reproducibility with duplicate tests	12

12	Test report	12
Annex A	(normative) Liquid-in-glass thermometer specifications	13
A.1	General.....	13
Annex B	(normative) Procedure for packaging and storage of catalyst coils.....	14
B.1	Materials	14
B.1.1	Test tubes	14
B.1.2	Test tube caps.....	14
B.1.3	Desiccant bags.....	14
B.1.4	Flushing tube	14
B.1.5	Nitrogen	14
B.2	Procedure	14
Annex C	(informative) Method for the determination of the insolubles content of mineral oils and anhydrous synthetic fluids	15
C.1	Scope	15
C.2	Principle.....	15
C.3	Apparatus	15
C.3.1	Standard filter assembly	15
C.3.2	Filter medium	15
C.3.3	Separating funnel.....	15
C.3.4	Centrifuge tubes	15
C.3.5	Forceps	15
C.3.6	Weighing dish	16
C.3.7	Oven	16
C.3.8	Analytical balance.....	16
C.4	Procedure	16
C.5	Calculation.....	16
C.6	Expression of results	16
Annex D	(informative) Appearance rating of catalyst coil wires	17
Annex E	(informative) Determination of metals content	18
E.1	General.....	18
E.2	Liquid phases.....	18
E.3	Sediment and residues.....	18
E.4	Expression of results	18
Bibliography	19

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 4263-3 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

ISO 4263 consists of the following parts, under the general title *Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test*:

- Part 1: Procedure for mineral oils
- Part 2: Procedure for category HFC hydraulic fluids
- Part 3: Anhydrous procedure for synthetic hydraulic fluids
- Part 4: Procedure for industrial gear oils

