ISO/TC 28 Petroleum products and lubricants

Secretary: **Paula Watkins, American Petroleum Institute, 1220 L Street NW, Washington, DC 20005, USA**
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ISO/TC 28 N 2252

2005-05-25

To: **P-members**
O-members
L-members

Copy to: **ISO/CS**

Dear Members,

Voting results and comments received on:

ISO/FDIS 5163 and ISO/FDAM 5163 Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method

ISO/FDIS 5164 and ISO/FDAM 5164 Petroleum products — Determination of knock characteristics of motor fuels — Research method

FDIS ballots on ISO 5163 and ISO 5164 terminated on 2005-04-10.
FDAM ballots on ISO 5163 and ISO 5164 terminated on 2005-05-10.

The results of the ballots are attached. As no negative votes were received, the new editions of ISO 5163 and ISO 5164 will proceed to publication with the amendments incorporated. Typographical corrections (as shown by the accepted comments) will also be made prior to publication. Furthermore, one additional correction will be made to the English version of ISO 5164. The FDAM text issued for ballot by the ISO Central Secretariat omitted one part of the sentence to be added to 9.3.2 (shown in bold below):

"It is permissible to start fit-for-use testing for a new operating period using approximately the same intake air mixture temperature tuning adjustment applied for the previous operating period, **recognizing that the barometric pressure for the two periods may be slightly different**, if both the following conditions are met."

The complete English text was supplied by the Secretariat to ISO/CS, but for some reason did not appear in the balloted FDAM. However, the corresponding text did appear in the French version of the balloted FDAM:

"Il est possible de démarrer des assais de validation pour une nouvelle période de service en utilisant approximativement la meme temperature d'air d'admission que lors de la période précédente, **en admettant que la pression barométrique pour les deux périodes puisse être légèrement différente**, si les deux conditions suivantes sont remplies."

The English text of ISO 5164 will be realigned with the French version on publication.

Yours sincerely

Paula Watkins

Paula Watkins
Secretary to ISO/TC 28

28n2252.doc

English Title:	**Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method**
French Title:	**Produits pétroliers — Détermination des caractéristiques antidétonantes des carburants pour moteurs automobile et aviation — Méthode moteur**

Document:	**ISO/FDIS 5163**	Committee:	**TC 28**
Start date (CET):	2005-02-10	End date (CET):	2005-04-10
ISO/CS ballot closing date (CET):	2005-04-12	Voting phase:	Approval
Status:	CLOSED	Version:	1
Vienna Agreement:	ISO lead (5.1)		

RESULT OF VOTING

P-Members voting: 22 in favour out of 22 = 100% (requirement >= 66.66%)

(P-members having abstained are not counted in the vote)

Member bodies voting: 0 negative votes out of 27 = 0% (requirement <= 25%)

APPROVED

Country	Member	Participation	Voted
Australia	SA	O-member	Approval with corrections
Austria	ON	P-member	Approval
Belarus	BELST	O-member	Approval
Belgium	IBN	P-member	Approval
China	SAC	P-member	Approval
Egypt	EOS	P-member	
France	AFNOR	P-member	Approval
Germany	DIN	P-member	Approval
Iran, Islamic Republic of	ISIRI	P-member	Approval
Israel	SII	P-member	Approval
Italy	UNI	P-member	
Japan	JISC	P-member	Approval
Kenya	KEBS	P-member	Approval
Korea, Republic of	KATS	P-member	Approval
Mexico	DGN	O-member	Abstention
Netherlands	NEN	P-member	Approval with corrections
Norway	SN	P-member	Approval
Poland	PKN	P-member	Approval
Portugal	IPQ	O-member	Approval
Romania	ASRO	P-member	Approval
Russian Federation	GOST R	O-member	Approval
Saudi Arabia	SASO	O-member	Abstention
Singapore	SPRING SG	P-member	Approval
Slovakia	SUTN	P-member	Approval
Spain	AENOR	P-member	Approval
Sweden	SIS	P-member	Approval
Switzerland	SNV	P-member	Approval
Trinidad and Tobago	TTBS	O-member	Approval
Turkey	TSE	P-member	Approval
United Kingdom	BSI	P-member	Approval
USA	ANSI	Secretariat	Approval with corrections

Template for comments and secretariat observations

***ISO 3166 Country codes:** AU = Australia NL = Netherlands US = United States

Date: 2005-04-14	Document: **ISO/FDIS 5163**
Petroleum products –- Determination of knock characteristics of motor and aviation fuels – Motor method	

1	2	(3)	4	5	(6)	(7)
MB[1] *See key above	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
AU	REFERENCE		Ge	Refers to Obsolete ASTM Standards		Noted.
NL	Page 10	key of Figure 1	ed	X1 Barometric pressure, mm Hg	should be replaced by "X1 Barometric pressure, in Hg"	Accepted.
NL		key of Figure 1	ed	X2 Barometric pressure, in Hg	should be replaced by "X2 Barometric pressure, mm Hg"	Accepted.
NL		key of Figure 1	ed	Y1 Compression Pressure, kPa	should be replaced by "Y1 Compression Pressure, psig"	Accepted.
NL		key of Figure 1	ed	Y2 Compression Pressure, psig	should be replaced by "Y2 Compression Pressure, kPa"	Accepted.
NL	Page 12	9.3.2.	ed	using the standard intake mixture temperature of 149 deg C, determine the MON of an untuned TSF blend. The engine shall be qualified ..."	should read "using the standard intake mixture temperature of 149 deg C, determine the MON of a TSF blend. The untuned engine shall be qualified ..."	Noted – Covered by FDAM 1 ballot on ISO/FDIS 5163:2005.
NL		9.3.3.	ed	"An engine that rates a TSF blend outside ...."	should read "An untuned engine that rates a TSF blend ouside ..."	Noted – Covered by FDAM 1 ballot on ISO/FDIS 5163:2005.
NL				Agreement on proposed changes according to doc Ref No ISO/FDIS 5163:FAM (final draft amendment 1)		Noted – Covered by FDAM 1 ballot on ISO/FDIS 5163:2005.
US	Introduction	5th para	ed		Insert a full stop at the end of the final sentence.	Accepted.
US	3.3	Line 1	ed		Insert a comma after “height” (c.f. 3.4)	Accepted.
US	5.2	Line 2	ed	Align with the edited version of FDIS 5164.	Change “not” to “neither”.	Accepted.
US	8.8	2nd para, line 4	te	The other values given in this sentence are quoted to 3 decimal places. “0,200” is also specified in FDIS 5164.	Add “0” to the end of “0,20”.	Accepted.
US	Figure 1	Key	ed	The X1 scale is incorrectly labelled.	Change “mm Hg” to “in Hg”.	Accepted.

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by ******)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

Template for comments and secretariat observations

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Date: 2005-04-14	Document: **ISO/FDIS 5163**
Petroleum products –- Determination of knock characteristics of motor and aviation fuels – Motor method	

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MB[1] *See key above	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
US	Figure 1	Key	ed	The X2 scale is incorrectly labelled.	Change “in Hg” to “mm Hg”.	Accepted.
US	Figure 1	Key	ed	The Y1 scale is incorrectly labelled.	Change “kPa” to “psig”.	Accepted.
US	Figure 1	Key	ed	The Y2 scale is incorrectly labelled.	Change “psig” to “kPa”.	Accepted.
US	Table 2	Footnote a	ed	There are two websites listed.	Change “website” to “websites”.	Accepted.
US	Table 2	Footnote b	ed	There are two websites listed.	Change “website” to “websites”.	Accepted.
US	Table 3	Footnote a	ed	There are two websites listed.	Change “website” to “websites”.	Accepted.
US	10.3.5	Line 4	ed	Align with the edited version of FDIS 5164	Change “so” to “such”.	Accepted.
US	11.1	Definitions to equation (3)	ed		In the definition of $X_{KI,HRF,}$ insert “the” after “of”.	Accepted.
US	Page 17	Footnote 4)	ed	“from page. 12” needs clarification	Insert the websites as listed in the footnotes to Table 2 on page 12.	Accepted.

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NOTE Columns 1, 2, 4, 5 are compulsory.

English Title:	**Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method — Amendment 1**
French Title:	**Produits pétroliers — Détermination des caractéristiques antidétonantes des carburants pour moteurs automobile et aviation — Méthode moteur — Amendement 1**

Document:	**ISO/FDIS 5163/FDAmd 1**	Committee:	**TC 28**
Start date (CET):	2005-03-10	End date (CET):	2005-05-10
ISO/CS ballot closing date (CET):	2005-05-12	Voting phase:	Approval
Status:	CLOSED	Version:	1
Vienna Agreement:	ISO lead (5.1)		

RESULT OF VOTING

P-Members voting: 22 in favour out of 22 = 100% (requirement >= 66.66%)

(P-members having abstained are not counted in the vote)

Member bodies voting: 0 negative votes out of 28 = 0% (requirement <= 25%)

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Country	Member	Participation	Voted
Australia	SA	O-member	Approval
Austria	ON	P-member	Approval
Belarus	BELST	O-member	Approval
Belgium	IBN	P-member	Approval
China	SAC	P-member	Approval
Egypt	EOS	P-member	Approval
France	AFNOR	P-member	Approval
Germany	DIN	P-member	Approval
Iran, Islamic Republic of	ISIRI	P-member	Approval
Israel	SII	P-member	Approval
Italy	UNI	P-member	Approval with corrections
Japan	JISC	P-member	Approval
Korea, Republic of	KATS	P-member	Approval
Kenya	KEBS	P-member	Approval
Luxembourg	SEE		Approval
Mexico	DGN	O-member	Abstention
Netherlands	NEN	P-member	Approval
Norway	SN	P-member	Approval
Poland	PKN	P-member	Approval
Portugal	IPQ	O-member	Approval
Romania	ASRO	P-member	
Russian Federation	GOST R	O-member	Approval
Singapore	SPRING SG	P-member	Approval
Slovakia	SUTN	P-member	Approval
Spain	AENOR	P-member	Approval
Sweden	SIS	P-member	Approval
Switzerland	SNV	P-member	Abstention
Trinidad and Tobago	TTBS	O-member	Approval
Turkey	TSE	P-member	Approval
United Kingdom	BSI	P-member	Approval
USA	ANSI	Secretariat	Approval

Template for comments and secretariat observations

***ISO 3166 Country codes:** IT = Italy

Date: 2005-05-18	Document: **ISO/FDIS 5163/FDAmd 1**
Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method — Amendment 1	

1	2	(3)	4	5	(6)	(7)
MB[1] *See key above	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
IT			ge	First line: page 12, 9.3.1 should be read Pag. 12 sub-clause 9.3.2		Accepted.

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NOTE Columns 1, 2, 4, 5 are compulsory.

English Title:	**Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method**
French Title:	**Produits pétroliers — Détermination des caractéristiques antidétonantes des carburants pour moteurs automobile — Méthode recherche**

Document:	**ISO/FDIS 5164**	Committee:	**TC 28**
Start date (CET):	2005-02-10	End date (CET):	2005-04-10
ISO/CS ballot closing date (CET):	2005-04-12	Voting phase:	Approval
Status:	CLOSED	Version:	1
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Belgium	IBN	P-member	Approval
China	SAC	P-member	Approval
Egypt	EOS	P-member	
France	AFNOR	P-member	Approval
Germany	DIN	P-member	Approval
Greece	ELOT	O-member	Approval
Iran, Islamic Republic of	ISIRI	P-member	Approval
Israel	SII	P-member	Approval
Italy	UNI	P-member	
Japan	JISC	P-member	Approval
Kenya	KEBS	P-member	Approval
Korea, Republic of	KATS	P-member	Approval
Mexico	DGN	O-member	Abstention
Netherlands	NEN	P-member	Approval with corrections
Norway	SN	P-member	Approval
Poland	PKN	P-member	Approval
Portugal	IPQ	O-member	Approval
Romania	ASRO	P-member	Approval
Russian Federation	GOST R	O-member	Approval
Saudi Arabia	SASO	O-member	Abstention
Singapore	SPRING SG	P-member	Approval
Slovakia	SUTN	P-member	Approval
Spain	AENOR	P-member	Approval
Sweden	SIS	P-member	Approval
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Template for comments and secretariat observations

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Date: 2005-04-14	Document: **ISO/FDIS 5164**
Petroleum products — Determination of knock characteristics of motor fuels — Research method	

1	2	(3)	4	5	(6)	(7)
MB[1] *See key above	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
AU	REFERENCE		Ge	Refers to Obsolete ASTM Standards		Noted.
NL	Page 10	Figure 1 key	ed	X1 Barometric pressure, mm Hg	should be replaced by "X1 Barometric pressure, in Hg"	Noted – Text is correct as written.
NL		Figure 1 key	ed	X2 Barometric pressure, in Hg	should be replaced by "X2 Barometric pressure, mm Hg"	Noted – Text is correct as written.
NL		Figure 1 key	ed	Y1 Compression Pressure, kPa	should be replaced by "Y1 Compression Pressure, psig"	Accepted.
NL		Figure 1 key	ed	Y2 Compression Pressure, psig	should be replaced by "Y2 Compression Pressure, kPa"	Accepted.
NL	Page 12	9.3.2.	ed	using the standard intake air temperature based on the prevailing barometric pressure, determine the RON of an untuned TSF blend."	Should read "using the standard intake air temperature based on the prevailing barometric pressure, determine the RON of a TSF blend."	Noted – Covered by FDAM 1 ballot on ISO/FDIS 5164:2005.
NL		9.3.3.	ed	An engine that rates a TSF blend outside ...."	should read "An untuned engine that rates a TSF blend outside…".	Noted – Covered by FDAM 1 ballot on ISO/FDIS 5164:2005.
NL				Agreement on proposed changes according to doc Ref No ISO/FDIS 5164:FAM (final draft amendment 1)		Noted – Covered by FDAM 1 ballot on ISO/FDIS 5164:2005.
US	Figure 1	Key	ed	The Y1 scale is incorrectly labelled.	Change “kPa” to “psig”.	Accepted.
US	Figure 1	Key	ed	The Y2 scale is incorrectly labelled.	Change “psig” to “kPa”.	Accepted.
US	11.1	Definitions to equation (1)	ed		In the definition of $X_{KI,HRF,}$ insert “the” after “of”.	Accepted.
US	Page 17	Footnote 4)	ed	“from page. 12” needs clarification	Insert the websites as listed in the footnotes to Table 2 on page 12.	Accepted.

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NOTE Columns 1, 2, 4, 5 are compulsory.

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French Title:	**Carburants pour moteur automobile — Détermination des caractéristiques antidétonantes — Méthode "Recherche" — Amendement 1**		
Document:	**ISO/FDIS 5164/FDAmd 1**	Committee:	**TC 28**
Start date (CET):	2005-03-10	End date (CET):	2005-05-10
ISO/CS ballot closing date (CET):	2005-05-12	Voting phase:	Approval
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France	AFNOR	P-member	Approval
Germany	DIN	P-member	Approval
Iran, Islamic Republic of	ISIRI	P-member	Approval
Israel	SII	P-member	Approval
Italy	UNI	P-member	Approval with corrections
Japan	JISC	P-member	Approval with corrections
Korea, Republic of	KATS	P-member	Approval
Kenya	KEBS	P-member	Approval
Luxembourg	SEE		Approval
Mexico	DGN	O-member	Abstention
Netherlands	NEN	P-member	Approval
Norway	SN	P-member	Approval
Poland	PKN	P-member	Approval
Portugal	IPQ	O-member	Approval
Romania	ASRO	P-member	
Russian Federation	GOST R	O-member	Approval
Singapore	SPRING SG	P-member	Approval
Slovakia	SUTN	P-member	Approval
Spain	AENOR	P-member	Approval
Sweden	SIS	P-member	Approval
Switzerland	SNV	P-member	Abstention
Trinidad and Tobago	TTBS	O-member	Approval
Turkey	TSE	P-member	Approval
United Kingdom	BSI	P-member	Approval
USA	ANSI	Secretariat	Approval

Template for comments and secretariat observations

***ISO 3166 Country codes:** IT = Italy JP = Japan

Date: 2005-05-18	Document: **ISO/FDIS 5164 FDAmd 1**
Petroleum products — Determination of knock characteristics of motor fuels — Research method — Amendment 1	

1	2	(3)	4	5	(6)	(7)
MB[1] *See key above	**Clause No./ Subclause No./ Annex** (e.g. 3.1)	**Paragraph/ Figure/Table/ Note** (e.g. Table 1)	**Type of com-ment**[2]	**Comment (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations** on each comment submitted
IT			ge	First line: page 1, 9.3.22 should be read Pag. 12 sub-clause 9.3.2		Accepted.
IT			ge	Fourth and sixth line: mixture should be read air		Accepted.
JP	9.3.1		ed	We have the following opinions. It was written that “intake mixture” in the sentence at Page 12,9.3.1 is technical term of the motor method, not of the research method. The word of “intake air” should have been used in the technical term of research method.		Accepted.

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