



## ISO/TC 28 Petroleum products and lubricants

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**ISO/TC 28 N 2319**

**2007-06-12**

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

**Copy to:** ISO/CS

Dear Members,

### **Overview of the status of the ISO/TC 28 work programme**

Please find attached an overview of the work programme with the status as of 2007-06-12. An asterisk next to the number in the first column indicates a recent change in the status of that item or the addition of new information.

Yours sincerely

*Paula Watkins*

Paula Watkins  
Secretary to ISO/TC 28

**ISO/TC 28 WORK PROGRAMME ON TEST METHODS (STATUS AS OF 12 JUNE 2007)**  
**Petroleum products and lubricants — Test methods**

IS = Published International Standard	NP = New Work Item Proposal	CS = Central Secretariat	AG = Advisory Group
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No.	ISO	Status	Title	Project Leader	Additional comments
1*	1516	IS/02	Determination of flash/no flash – Closed cup equilibrium method	Mike Sherratt	Third edition published 2002-03-01. Under systematic review. Ballot terminates on 2007-06-18.
2*	1523	IS/02	Determination of flash point – Closed cup equilibrium method	Mike Sherratt	Third edition published 2002-03-01. Under systematic review. Ballot terminates on 2007-06-18.
3*	2049	IS/96 (01) PWI/06	Petroleum products – Determination of colour (ASTM scale)	Kevin Bly	Second edition published 1996-07-15. Reviewed in 2006. Revision proposed. AG agreed to list as a PWI and that permission would be sought from ASTM to use D1500 as the basis of the revision for the ISO. Rationale: Many ISO members use ISO 2049 and have nationally adopted it. ISO/TC 28 has identified experts prepared to participate in the revision of ISO 2049. ISO 2049 is cited in numerous ISO standards (ISO 8068, ISO 11158, ISO/TS 12927 and ISO 15380), and the effort required to replace this reference is such that ISO/TC 28 would like to maintain the ISO standard at this time.
4*	2137	IS/85 (90) DIS/04 FDIS/07?	Petroleum products – Determination of cone penetration of lubricating greases and petrolatum	Victor d'Hollander	Second edition published 1985-11-01. English & French FDIS texts submitted to ISO/CS on 2007-01-18 along with updated figures.
5	2160	IS/98 (03)	Petroleum products – Corrosiveness to copper – Copper strip test	Roger Organ	Third edition published 1998-09-15. Due for ISO systematic review in 2008. ISO originally based on ASTM D130/IP 154. CEN/TC 19/WG 26 determined applicability for FAME.

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6	2176	IS/95 (06) + Tech Corr 1/01	Petroleum products – Lubricating grease – Determination of dropping point	Hank Kruschwitz	Second edition published 1995-03-15. Technical Corrigendum published on 2001-06-15. Confirmed following systematic review in 2006. Due for next systematic review in 2011.
7*	2207	IS/80 (92) DIS/95	Petroleum waxes – Determination of congealing point	Dominique Lefebvre	First edition published 1980-12-01. To be proposed for withdrawal (see Res. 25 of 28 N 2200). Currently under systematic review. Ballot terminates on 2007-09-17.
8	2592	IS/00 (05)	Determination of flash and fire points – Cleveland open cup method	Mike Sherratt	Second edition published 2000-09-15. Confirmed following systematic review in 2005. Due for next ISO systematic review in 2010.
9	2719	IS/02	Determination of flash point – Pensky-Martens closed cup method	Mike Sherratt	Third edition published 2002-11-15. Due for ISO systematic review in 2007. CEN/TC 19/WG 26 determined precision for FAME.
—	2908	IS/74 (92)	Petroleum waxes – Determination of oil content	Arthur Barker	First edition published 1974-08-15. Withdrawn 2006-03-17 [see Res. 25 of 28 N 2200 and results of 2005 systematic review (28 N 2264)].
10	2909	IS/02	Petroleum products – Calculation of viscosity index from kinematic viscosity	Bob Manning	Third edition published 2002-12-15. Due for ISO systematic review in 2007. ISO originally based on ASTM D2270.
11	2977	IS/97 (02) PWI/02	Petroleum products and hydrocarbon solvents – Determination of aniline point and mixed aniline point	[Paul Strigner]	Third edition published 1997-07-15. Confirmed in 2002 following systematic review. Also listed as a PWI so that comments from the review could be evaluated (see Res. 15 of 28 N 2200). UK originally considered submitting an NP in 2004 to modify (revise or amend, as appropriate) (see Res. 19/2004) but now EI developing a joint standard with ASTM. Due for ISO systematic review in 2007 – maybe considered for withdrawal. ISO originally based on ASTM D611.

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12	3007	IS/99 (04)	Petroleum products and crude petroleum – Determination of vapour pressure – Reid method	Winston Sutton	Third edition published 1999-10-15. Due for ISO systematic review in 2009. ISO originally based on ASTM D323-94.
13	3012	IS/99 (04)	Petroleum products – Determination of thiol (mercaptan) sulfur in light and middle distillate fuels – Potentiometric method	Steve Sullivan	Third edition published 1999-05-01. Due for ISO systematic review in 2009.
14	3013	IS/97 (02)	Petroleum products – Determination of the freezing point of aviation fuels	Mike Sherratt	Second edition published 1997-09-15. Placed on the MoU study list (see Res. 20/2004). Due for ISO systematic review in 2007.
15	3014	IS/93 (03)	Petroleum products – Determination of the smoke point of kerosine	Steve Sullivan	Third edition published 1993-12-15. Due for ISO systematic review in 2008.
16	3015	IS/92 (02) PWI/02	Petroleum products – Determination of cloud point	Stu Porter	Second edition published 1992-08-15. Confirmed in 2002 following systematic review. Also listed as a PWI so that comments from the review can be evaluated (see Res. 16 of 28 N 2200). CEN/TC 19/WG 26 determined precision for FAME. Due for ISO systematic review in 2007.
17*	3016	IS/94 (00)	Petroleum products – Determination of pour point	Stu Porter	Second edition published 1994-08-01. Corrected and reprinted 1995-03-15. Under revision following systematic review in 2005. CD under preparation – target date 2006-08-01. Project now listed as critical: needs to progress to DIS by 2007-11-16. CEN/TC 19/WG 26 determined precision for FAME. ISO originally based on ASTM D97.

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18*	3104	IS/94 + Tech Corr 1/97	Petroleum products – Transparent and opaque liquids – Determination of kinematic viscosity and calculation of dynamic viscosity	Pat Maggi	Second edition published 1994-10-15. Under revision following systematic review in 2005 – updated CD target date: 2006-11-01 (see Res. 5/2006). Project now listed as critical: needs to progress to DIS by 2007-11-16. Corresponding ASTM standard is D445. AG agreed 2006-12 that permission would be sought from ASTM to use D445 as the basis of the revision for the ISO. Rationale: Many ISO members use ISO 3104 and have nationally adopted it. ISO/TC 28 has identified experts prepared to participate in the revision of ISO 3104. It is referenced in EN 14213 and EN 14214. ISO 3104 is cited in numerous ISO standards, and the effort required to replace this reference is such that ISO/TC 28 would like to maintain the ISO standard at this time. CEN/TC 19 has also agreed to revise this standard (EN ISO 3104) under the Vienna Agreement. CEN/TC 19/WG 26 determined precision for FAME.
19*	3105	IS/94	Glass capillary kinematic viscometers – Specification and operating instructions	Pat Maggi	Second edition published 1994-12-01. Under revision following systematic review in 2005 – updated CD target date: 2006-11-01 (see Res. 5/2006). Project now listed as critical: needs to progress to DIS by 2007-11-16. Corresponding ASTM standard is D446.

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20*	3405	IS/00	Petroleum products – Determination of distillation characteristics at atmospheric pressure	Didier Pigeon	Third edition published 2000-03-01. Under revision following systematic review in 2005. CEN/TC 19 also agreed to revise under the Vienna Agreement. CD text under preparation – target date: 2006-11-16. Project now listed as critical: needs to progress to DIS by 2007-11-16. CEN/TC 19/WG 26 determined precision for FAME. ISO originally based on ASTM D86/IP 123.
21	3448	IS/92 (02) + Tech Corr 1/93	Industrial liquid lubricants – ISO viscosity classification	Hap Thompson	Second edition published 1992-09-15. Due for ISO systematic review in 2007. ISO originally based on ASTM D2422.
22	3648	IS/94 (05) + Tech Corr 1/96	Aviation fuels – Estimation of net specific energy	[Steve Bonifazi]	Second edition published 1994-08-01. Confirmed following systematic review in 2005. Due for next ISO systematic review in 2010. ISO originally based on ASTM D4529.
23	3666	TR/98 (05)	Viscosity of water	Harro Bauer	Second edition published 1998-12-15 as a type 3 TR. Confirmed following systematic review in 2005. Due for next ISO systematic review in 2010.
24*	3679	IS/04	Determination of flash point – Rapid equilibrium closed cup method	Mike Sherratt	Third edition published 2004-04-01. Under systematic review. Ballot terminates on 2007-06-18.
25*	3680	IS/04	Determination of flash/no flash – Rapid equilibrium closed cup method	Mike Sherratt	Fourth edition published 2004-04-01. Under systematic review. Ballot terminates on 2007-06-18.
26*	3771	IS/94 CD/07	Petroleum products – Determination of base number – Perchloric acid potentiometric titration method	Janet Lane	Second edition published 1994-08-15. Under revision following systematic review in 2005 (AG Resolution 13/2006). CD ballot initiated on 2007-06-06 and terminates on 2007-09-06. Project now listed as critical: needs to progress to DIS by 2007-11-16. ISO originally based on ASTM D2896.

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27	3830	IS/93 (03)	Petroleum products – Determination of lead content of gasoline – Iodine monochloride method	John Evans	Third edition published 1993-10-01. Due for ISO systematic review in 2008.
28	3837	IS/93 (05) + Tech Corr 1/94 + Tech Corr 2/96 CD/00	Liquid petroleum products – Determination of hydrocarbon types – Fluorescent indicator adsorption method	Wayne Rathbun	First edition published 1993-12-15. CD ballot terminated on 2000-06-14. Project to revise the 1 <sup>st</sup> edition was automatically cancelled in April 2003 in accordance with ISO/TMB Resolution 08/2001. Then agreed that ISO 3837:1993 would be proposed for withdrawal and ASTM D1319 referenced instead (see Res. 14 of 28 N 2200). However, standard confirmed following systematic review in 2005. Due for next ISO systematic review in 2010. CEN/TC 19 has published a corresponding European Standard, EN 15553.
29	3839	IS/96 (06)	Petroleum products – Determination of bromine number of distillates and aliphatic olefins – Electrometric method	[Axel Lubeck]	Second edition published 1996-10-01. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. Replacement of 1,1,1-trichloroethane under consideration.
—	3841	IS/77 (93) +Erratum/80	Petroleum waxes – Determination of the melting point (cooling curve)	Dominique Lefebvre	Withdrawn 2007-03-05.

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30*	3924	IS/99 (04) NP/06	Petroleum products – Determination of boiling range distribution – Gas chromatography method	Han Spaans	Second edition published 1999-08-01. Under revision following NP ballot that terminated on 2006-03-20 (see 28 N 2292 for the results). DIS text prepared. Project now has a warning: 6 months or less to DIS target date of 2007-10-14. AG agreed 2006-12 that permission would be sought from ASTM and EI to use their standards to update the ISO. ISO is used in specifications. Data was developed cooperatively within EI, DIN and ASTM. AG agrees document will be balloted directly as DIS. ISO originally based on ASTM D2887/IP 406.
31*	3987	IS/94 (00)	Petroleum products – Lubricating oils and additives – Determination of sulfated ash	Bob Hooks	Second edition published 1994-12-15. Under revision following systematic review in 2005. Revisions are limited, therefore will proceed directly to DIS ballot (Res. 4/2006). CEN/TC 19/WG 26 determined precision for FAME. DIS text still under preparation by PL. AG agreed 2006-12 that new target date for DIS is 2007-03-01. Project now has a warning: 6 months or less to (ISO) DIS target date of 2007-10-28. ISO originally based on ASTM D874.
32	4256	IS/96 (06)	Liquefied petroleum gases – Determination of gauge vapour pressure – LPG method	Pascal Manuelli	Second edition published 1996-10-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011.
33	4259	IS/06	Petroleum products – Determination and application of precision data in relation to methods of test	John Church	Third edition published 2006-08-01. Due for ISO systematic review in 2009.
34	4260	IS/87 (02)	Petroleum products and hydrocarbons – Determination of sulfur content – Wickbold combustion method	Bruno Schulwitz	First edition published 1987-04-01. Due for ISO systematic review in 2007.

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35	4262	IS/93 (03)	Petroleum products – Determination of carbon residue – Ramsbottom method	[Tim Berryman]	Second edition published 1993-09-15. Due for ISO systematic review in 2008. ISO originally based on IP 14/ASTM D524.
36	4263-1	IS/03	Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids – TOST test – Part 1: Procedure for mineral oils	[Tim Berryman]	First edition published 2003-03-15 (actually supersedes ISO 4263:1986). Due for ISO systematic review in 2008. ISO originally based on IP 157ASTM D943.
37	4263-2	IS/03	Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids – TOST test – Part 2: Procedure for category HFC hydraulic fluids	[Tim Berryman]	First edition published 2003-04-15. Due for ISO systematic review in 2008. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.3.1)/DIN 51587/IP 157/ASTM D943.
38	4263-3	IS/06	Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids – TOST test – Part 3: Anhydrous procedure for synthetic hydraulic fluids	Jürgen Reichel	First edition published 2006-02-01. Due for ISO systematic review in 2009.
39	4263-4	IS/06	Petroleum and related products – Determination of the ageing behaviour of inhibited oils and fluids – TOST test – Part 4: Procedure for industrial gear oils	Victor d'Hollander	First edition published 2006-02-01. Due for ISO systematic review in 2009.
40*	4264	IS/95 PWI/01 FDIS/07	Petroleum products – Calculation of cetane index of middle-distillate fuels by the four-variable equation	[Peter David]	First edition published 1995-10-01. Corrected figures supplied by UK so that a Technical Corrigendum could be published. Submitted to ISO/CS on 2006-12-15, who advised that an FDIS ballot would be initiated in order to publish a new edition with the corrected figures. FDIS initiated on 2007-05-10 and terminates on 2007-07-10 (parallel CEN Formal Vote). In the interim, the 1995 edition is under systematic review. Ballot terminates on 2007-06-18.
—	4265	IS/86 (97)	Petroleum products – Lubricating oils and additives – Determination of phosphorus content – Quinoline phosphomolybdate method	NONE	Withdrawn 2005-02-01. ISO originally based on ASTM D4047.

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41*	4404-1	IS/01 PWI/06	Petroleum and related products – Determination of the corrosion resistance of fire-resistant hydraulic fluids – Part 1: Water-containing fluids	David Phillips	First edition published 2001-12-01. Typo identified in the scope. Corrected version published on 2002-06-01. Underwent systematic review in 2006. Amendment proposed. CEN/TC 19 also adopted it as an EN ISO in 2006-07. AG agreed 2006-12 for PL to consult with systematic review experts, ISO/TC 28/SC 4/WG 3 and CEN/TC 19/WG 28, and provide a recommendation on what the proposed Amendment might encompass and report back to the AG by June 2007 meeting. Registered as a PWI in the interim.
42	4404-2	IS/03	Petroleum and related products – Determination of the corrosion resistance of fire-resistant hydraulic fluids – Part 2: Non-aqueous fluids	Paul Cox	First edition published 2003-08-01. Due for ISO systematic review in 2008. Originally registered after NP ballot as ISO 20845. CEN/TC 19/WG 28 then decided it should become Part 2 to ISO 4404. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.9.1)/CETOP RP 48H.
43	5163	IS/05	Petroleum products – Determination of knock characteristics of motor and aviation fuels – Motor method	Randy Hoy	Third edition published 2005-06-15. Due for ISO systematic review in 2008.
44	5164	IS/05	Petroleum products – Determination of knock characteristics of motor fuels – Research method	Randy Hoy	Third edition published 2005-06-15. Due for ISO systematic review in 2008.
45	5165	IS/98 (03)	Petroleum products – Determination of the ignition quality of diesel fuels – Cetane engine method	Randy Hoy	Third edition published 1998-03-01. Due for ISO systematic review in 2008. ISO originally based on ASTM D613. CEN/TC 19/WG 26 determined precision for FAME.
46	5275	IS/03	Petroleum products and hydrocarbon solvents – Detection of thiols and other sulfur species – Doctor test	Steve Sullivan	Second edition published 2003-06-01. Due for ISO systematic review in 2008.
47	5661	IS/83 (04)	Petroleum products – Hydrocarbon liquids – Determination of refractive index	Siegfried Kägler	First edition published 1983-10-15. Due for ISO systematic review in 2009.

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—	5662	IS/97	Petroleum products – Electrical insulating oils – Detection of corrosive sulfur	NONE – (project facilitator: Tim Berryman)	Withdrawn 2005-02-01. Corresponding ASTM Standard is D1275 (under the jurisdiction of D27). IEC/TC 10 initiated a NP ballot on 2007-01-12 (terminated 2007-04-13) to develop a new method.
—	6073	IS/97	Petroleum products – Prediction of the bulk moduli of petroleum fluids used in hydraulic fluid power systems	NONE – (project facilitator: Tim Berryman)	Withdrawn 2005-02-01.
48	6244	IS/82 (04)	Petroleum waxes and petrolatums – Determination of drop melting point	Arthur Barker	First edition published 1982-02-01. Due for ISO systematic review in 2009.
49	6245	IS/01 (06)	Petroleum products – Determination of ash	Kishore Nadkarni	Third edition published 2001-10-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. CEN/TC 19/WG 26 determined applicability for FAME. ISO originally based on ASTM D482.
50*	6246	IS/95 (05) + Tech Corr 1/98 PWI/06	Petroleum products – Gum content of light and middle distillate fuels – Jet evaporation method	Kevin Bly	Second edition published 1995-08-15. Underwent systematic review in 2006. Revision proposed (see also Res. 10/2006). AG suggested in 2006-12 listing as a PWI until decision is made as to what action to take on ISO (especially because of the uncertainty as to what direction ASTM D381 will take). ISO originally based on ASTM D381/IP 131.
51	6247	IS/98 (03) + Tech Corr 1/99	Petroleum products – Determination of foaming characteristics of lubricating oils	Kishore Nadkarni	First edition published 1998-06-01. Due for ISO systematic review in 2008. ISO originally based on ASTM D892/IP 146.
52	6249	IS/99 (04)	Petroleum products – Determination of thermal oxidation stability of gas turbine fuels – JFTOT method	Richard Heins	Second edition published 1999-10-01. Placed on the MoU study list (see Res. 15/2004). Due for ISO systematic review in 2009. ISO based on IP 323/96.

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53	6250	IS/97 (02)	Petroleum products – Determination of the water reaction of aviation fuels	[Richard Heins]	Second edition published 1997-12-15. Placed on the MoU study list (see Res. 20/2004). Due for ISO systematic review in 2007.
54	6251	IS/96 (06)	Liquefied petroleum gases – Corrosiveness to copper – Copper strip test	Altan Meric	Second edition published 1996-11-01. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011.
55	6293-1	IS/96 (06)	Petroleum products – Determination of saponification number – Part 1: Colour-indicator titration method	Kishore Nadkarni	First edition published 1996-12-01. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011.
56	6293-2	IS/98 (03)	Petroleum products – Determination of saponification number – Part 2: Potentiometric titration method	Kishore Nadkarni	First edition published 1998-05-01. French edition corrected and reprinted 2000-02-01 to insert an equation previously omitted. Due for ISO systematic review in 2008. ISO originally based on ASTM D94/IP 136.
—	6295	IS/83 (99)	Petroleum products – Mineral oils – Determination of interfacial tension of oil against water – Ring method	Bernard Noirhomme	Withdrawn 2005-02-01. ASTM D971 (now under the jurisdiction of D27) to be referenced instead.
57	6297	IS/97 (02)	Petroleum products – Aviation and distillate fuels – Determination of electrical conductivity	Richard Heins	Second edition published 1997-12-01. Due for ISO systematic review in 2007.
58	6299	IS/98 (03)	Petroleum products – Determination of dropping point of lubricating greases (wide temperature range)	Hank Kruschwitz	First edition published 1998-03-15. Due for ISO systematic review in 2008. ISO originally based on ASTM D2265.
59	6614	IS/94 (05)	Petroleum products – Determination of water separability of petroleum oils and synthetic fluids	Paul Strigner	Second edition published 1994-12-15. Due for ISO systematic review in 2010. ISO originally based on ASTM D1401.
60*	6615	IS/93 (03) NP/07	Petroleum products – Determination of carbon residue – Conradson method	Dave Simpkin	Second edition published 1993-09-15. NP to amend the standard to correct the precision equations (& ballot directly as FDAM) terminated on 2007-04-24. NP approved but results will be discussed by AG to determine whether to proceed directly to FDAM. ISO originally based on IP 13/ASTM D189.

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—	6616	DIS/85	Petroleum products – Determination of distillation characteristics at reduced pressures	Christiane Largeteau	Project deleted in accordance with ISO/TMB Resolution 55/1998. Will NOT be balloted for reinstatement (see Res. 9 of 28 N 2200) and ASTM D1160 referenced instead. CEN/TC 19 may develop as a European Standard.
61	6617	IS/94 (05)	Petroleum-based lubricating oils – Ageing characteristics – Determination of change in Conradson carbon residue after oxidation	P. Kraneburg	First edition published 1994-10-15. Due for ISO systematic review in 2010.
62	6618	IS/97 (02) + Tech Corr 1/99 (for F version only)	Petroleum products and lubricants – Determination of acid or base number – Colour-indicator titration method	Bill Tanguay	Second edition published 1997-02-01. Due for ISO systematic review in 2007.
63	6619	IS/88 (06) NP/97	Petroleum products and lubricants – Determination of acid number – Potentiometric titration method	Bob Hooks	First edition published 1988-12-01. NP ballot to revise 1 <sup>st</sup> edition terminated on 1998-03-31. Results circulated as 28 N 1992. Proposed text aligned with revised IP 177/ASTM D664. However, project automatically cancelled in July 2001 in accordance with ISO/TMB Resolution 08/2001. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011.
64	7120	IS/87 (05)	Petroleum products and lubricants – Petroleum oils and other fluids – Determination of rust-preventing characteristics in the presence of water	NONE	First edition published 1987-04-01. Due for ISO systematic review in 2010. ISO originally based on ASTM D665.

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65*	7536	IS/94	Petroleum products – Determination of oxidation stability of gasoline – Induction period method	David Forester	First edition published 1994-08-01. Under revision following systematic review in 2005 (Res. 6/2006). CD target date: 2007-04-28. Project now has a warning: 6 months or less to DIS target date of 2007-10-28. ISO originally based on ASTM D525/IP 40. AG agreed 2006-12 that permission would be sought from ASTM to use D525 as the basis of the revision for the ISO. Rationale: Many ISO members use ISO 7536 and have nationally adopted it. ISO/TC 28 has identified experts prepared to participate in the revision of ISO 7536. ISO 7536 is cited in numerous other standards (EN 228), and the effort required to replace this reference is such that ISO/TC 28 would like to maintain the ISO standard at this time.
66	7537	IS/97 (02)	Petroleum products – Determination of acid number – Semi-micro colour-indicator titration method	Bill Tanguay	Second edition published 1997-07-15. Due for ISO systematic review in 2007. ISO originally based on ASTM D3339.
67	7624	IS/97 (02)	Petroleum products and lubricants – Inhibited mineral turbine oils – Determination of oxidation stability	NONE	First edition published 1997-09-15. Due for ISO systematic review in 2007.
68	7941	IS/88 (04) PWI/99	Commercial propane and butane – Analysis by gas chromatography	Jean-Paul Perret	First edition published 1988-08-01. Confirmed following systematic review in 1998 and 2004, but also registered as a PWI. Agreed that a revision would be initiated once updated technique was balloted within ASTM D02. Simultaneous revision with ISO 8973 considered (see Res. 20 of 28 N 2200). See also Res. 11/2006. Due for next ISO systematic review in 2009.

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69	8691	IS/94 (05)	Petroleum products – Low levels of vanadium in liquid fuels – Determination by flameless atomic absorption spectrometry after ashing	Siegfried Kägler	First edition published 1994-12-01. Due for ISO systematic review in 2010. ISO based on DIN 51790:Part 3.
—	8708	DIS/89	Crude petroleum oil – Determination of distillation characteristics using 15 theoretical plate column	Michel Bourgogne	Project deleted in accordance with ISO/TMB Resolution 55/1998. Will NOT be balloted for reinstatement (see Res. 10 of 28 N 2200) and ASTM D2892 referenced instead.
70	8754	IS/03	Petroleum products – Determination of sulfur content – Energy-Dispersive X-ray fluorescence spectrometry	Ralph Hensel	Second edition published 2003-07-15. Due for ISO systematic review in 2008.
71	8819	IS/93 (03)	Liquefied petroleum gases – Detection of hydrogen sulfide – Lead acetate method	Pascal Manuelli	Second edition published 1993-10-01. Due for ISO systematic review in 2008.
72	8973	IS/97 (02) PWI/02	Liquefied petroleum gases – Calculation method for density and vapour pressure	Jean-Paul Perret	First edition published 1997-07-15. Confirmed in 2002 following systematic review. Also listed as a PWI so that comments from the review can be evaluated (see Res. 16 of 28 N 2200). See also Res. 11/2006. Due for ISO systematic review in 2007.
73	9120	IS/97 (02)	Petroleum and related products – Determination of air-release properties of steam turbine and other oils – Impinger method	Mike Sherratt	First edition published 1997-12-01. Corrected and reprinted 1998-05-15. Due for ISO systematic review in 2007.
—	9262	DIS.2/91	Petroleum and related products – Determination of low temperature viscosity characteristics of automotive lubricants – Rotational viscometer method	Hans Dieter Müller	Comments on DIS.2 resolved by PL and revised text prepared. May need to be aligned with new version of ASTM D2196 (updated with new precision). However, project deleted in accordance with ISO/TMB Resolution 55/1998.
74	9950	IS/95 (06)	Industrial quenching oils – Determination of cooling characteristics – Nickel-alloy probe test method	George Totten	First edition published 1995-05-01. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011.

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75*	10307-1	IS/93 (98) + Tech Corr 1/97	Petroleum products – Total sediment in residual fuel oils – Part 1: Determination by hot filtration	Jacco Woldendorp	First edition published 1993-09-15. Under revision following systematic review in 2005 (Res. 7/2006). PL reported that review experts have until Jan 2007 to comment on his proposed draft. Will progress directly to DIS (see AG Res. 8/2006).
76*	10307-2	IS/93 (03) NP/06	Petroleum products – Total sediment in residual fuel oils – Part 2: Determination using standard procedures for ageing	Jacco Woldendorp	First edition published 1993-09-15. Under revision following an NP ballot (see Res. 25/2004) which terminated on 2006-03-20. PL reported that review experts have until Jan 2007 to comment on his proposed draft. Will progress directly to DIS (see AG Res. 8/2006).
77*	10370	IS/93 (98) + Tech Corr 1/93 (for F version only) PWI/06	Petroleum products – Determination of carbon residue – Micro method	David Simpkin	First edition published 1993-09-15. Under revision following systematic review in 2005. Listed as a PWI until precision work completed (Res. 8/2006). CEN/TC 19/WG 26 determined precision for FAME. Bob Hooks reported that 3 <sup>rd</sup> ruggedness study is in progress. Full round robin planned for 2007 with European colleagues. Report on status at June 2007 AG meeting.
78	10478	IS/94 (05)	Petroleum products – Determination of aluminium and silicon in fuel oils – Inductively coupled plasma emission and atomic absorption spectroscopy method	John Evans	First edition published 1994-08-01. Due for ISO systematic review in 2010. ISO based on IP 377.
79	11007	IS/97 (02) PWI/02	Petroleum products and lubricants – Determination of rust-prevention characteristics of lubricating greases	[Tim Hutchings]	First edition published 1997-06-15. Confirmed in 2002 following systematic review. Also listed as a PWI so that comments from the review can be evaluated (see Res. 16 of 28 N 2200). Due for ISO systematic review in 2007.

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80	11008	CD/96	Petroleum products and lubricants – Determination of extreme pressure properties of lubricating greases – Four ball method	Michael Anderson	CD ballot closed 1996-09-28. Agreed to split standard into 2 parts (see 28/AG N 194, Res. 13). However, project deleted in accordance with ISO/TMB Resolution 55/1998. Awaiting advice from ISO/TC 28/SC 4/WG 7.
81	11009	IS/00 (05)	Petroleum products and lubricants – Determination of water washout characteristics of lubricating greases	Brian Kusak	First edition published 2000-03-01. Due for ISO systematic review in 2010. ISO originally based on ASTM D1264.
82	11010	NP/90 WD/96	Petroleum products and lubricants – Determination of the upper operating temperature of lubricating greases	[Barbara Carfolite]	WD was edited by TC 28 Sec. but awaiting advice from SC 4/WG 7 on how to proceed. ISO originally based on ASTM D3336. Project deleted in accordance with ISO/TMB Resolution 55/1998. Will be balloted for reinstatement once advice on technical issues is obtained from SC 4/WG 7.
—	11013	DIS/95	Quenching media – Evaluation of quenching ability of an industrial unit	[François Moreaux]	Project deleted in accordance with ISO/TMB Resolution 55/1998. Will NOT be balloted for reinstatement (see Res. 11 of 28 N 2200) as there is no longer a project leader available.
83	12156-1	IS/06	Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method	ISO/TC 22/SC 7-TC 28 JWG Convenor: Paul Henderson	Developed jointly by ISO/TC 22/SC 7 and ISO/TC 28. Second edition published 2006-10-01. Due for ISO systematic review in 2009.
84	12205	IS/95 (06)	Petroleum products – Determination of the oxidation stability of middle-distillate fuels	[Tim Berryman]	First edition published 1995-02-01. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. CEN/TC 19/WG 26 determined precision for FAME.
85*	13357-1	IS/02	Petroleum products – Determination of the filterability of lubricating oils – Part 1: Procedure for oils in the presence of water	David Sutton	First edition published 2002-04-15. Under systematic review. Ballot terminates on 2007-09-17.
86	13357-2	IS/05	Petroleum products – Determination of the filterability of lubricating oils – Part 2: Procedure for dry oils	David Sutton	Second edition published 2005-10-15. Due for ISO systematic review in 2010.

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87*	13736	IS/97 DIS/06	Petroleum products and other liquids – Determination of flash point – Abel closed cup method	Mike Sherratt	First edition published 1997-11-01. DIS ballot terminated on 2007-03-26 (parallel Enquiry Vote within CEN/TC 19). 0 negative votes received. Comments under consideration by PL. Project now has a warning: 6 months or less to FDIS target date of 2007-11-15.
88	13737	IS/04	Petroleum products and lubricants – Determination of low-temperature cone penetration of lubricating greases	Victor d'Hollander	First edition published 2004-07-01. Due for ISO systematic review in 2009.
89	13757	IS/96 (06)	Liquefied petroleum gases – Determination of oily residues – High-temperature method	Jean-Paul Perret	First edition published 1996-07-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. Alternative method under evaluation within BNPé.
90	13758	IS/96 (06)	Liquefied petroleum gases – Assessment of the dryness of propane – Valve freeze method	[Tim Berryman]	First edition published 1996-07-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. See 28 N 2210 for revisions proposed by the UK in 2003 (see 28 N 2219 for responses to the proposal).
91	13759	IS/96 (06)	Petroleum products – Determination of alkyl nitrate in diesel fuels – Spectrometric method	[Tim Berryman]	First edition published 1996-12-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. CEN/TC 19/WG 26 determined precision for FAME.
—	14274	PWI/95	Lubricants, industrial oils and related products – Evaluation of the biodegradability	NONE	Withdrawn from work programme (resolution 10 of 28 N 2002). Proposal originally circulated as SC 4/AG N 1. SC 4 will reference ISO 14593 & ISO 9439 developed by ISO/TC 147/SC 5.
92*	14596	IS/98 + Tech Corr 1/99 DIS/06	Petroleum products – Determination of sulfur content – Wavelength-dispersive X-ray fluorescence spectrometry	Ralph Hensel	First edition published 1998-06-15. FDIS ballot initiated on 2007-06-07 and terminates on 2007-08-07 (parallel Formal Vote within CEN/TC 19).

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93	14597	IS/97 (02)	Petroleum products – Determination of vanadium and nickel content – Wavelength-dispersive X-ray fluorescence spectrometry	Joanna Wolska	First edition published 1997-07-15. Due for ISO systematic review in 2007.
94	14935	IS/98 (03)	Petroleum and related products – Determination of wick flame persistence of fire-resistant fluids	[Tim Berryman]	First edition published 1998-05-01. Due for ISO systematic review in 2008.
95	15029-1	IS/99 (04)	Petroleum and related products – Determination of spray ignition characteristics of fire-resistant fluids – Part 1: Spray flame persistence – Hollow cone nozzle method	Jürgen Reichel	First edition published 1999-12-01. Will be transformed into a Technical Specification on the publication of ISO 15029-2 (see Res. 16/2004).
96*	15029-2	DIS/06	Petroleum and related products – Determination of spray ignition characteristics of fire-resistant fluids – Part 2: Spray test – Stabilized flame heat release spray method	Stuart Jagger	DIS ballot terminated on 2007-04-09 (parallel Enquiry Vote within CEN/TC 19). 2 negatives (Germany and UK). Comments under consideration by PL. ISO originally based on 7 <sup>th</sup> Luxembourg Report (Section 3.1.3).
97*	15029-3	NP-CD/07?	Petroleum and related products – Determination of spray ignition characteristics of fire-resistant fluids – Part 3: Spray test – Large scale method	Margaret Simonson	CD text prepared by PL reviewed by AG (see AG N 199). NP-CD balloted will be initiated proposing ISO 15029-3 is developed as a Technical Specification (Res. 12/2006). NP and PDTS under review by SIS and PL.
—	15160	NP/95	Determination of individual components and groups of components in gasoline by high efficiency open tubular column gas chromatography (detailed hydrocarbon analysis)	Neil Johansen	Project was ‘frozen’ whilst the comparative cooperative study within ASTM was completed. Project will NOT be balloted for reinstatement and ASTM D6729, D6730 or D6733 referenced instead (see Res. 22 of 28 N 2200).
98	15167	IS/99 (04)	Petroleum products – Determination of particulate content of middle distillate fuels – Laboratory filtration method	Steve Westbrook	First edition published 1999-07-15. Due for ISO systematic review in 2009. ISO originally based on ASTM D6217.
—	15269	NP/96	Industrial quenching oils – Determination of cooling characteristics – Silver probe test method	[Michel Deck]	Project automatically cancelled in July 2001 in accordance with ISO/TMB Resolution 08/2001. Will NOT be balloted for reinstatement (see Res. 11 of 28 N 2200) as there is no longer a project leader available.

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—	15595	NP/02	Petroleum and related products – Determination of oxidation stability and corrosivity of fire-resistant fluids	Jürgen Reichel	CD ballot terminated on 1997-12-12. However, project automatically cancelled in July 2001 in accordance with ISO/TMB Resolution 08/2001. NP ballot to reinstate project terminated on 2002-08-31. Not enough experts nominated to reinstate project. ISO was to be based on DIN 51373. CEN/TC 19 developed EN 14832 as an alternative which was finalized in 2005.
—	15596	NP/02	Petroleum and related products – Determination of hydrolytic stability of fire-resistant fluids	Jürgen Reichel	CD ballot terminated on 1997-12-12. However, project automatically cancelled in July 2001 in accordance with ISO/TMB Resolution 08/2001. NP ballot to reinstate project terminated on 2002-08-31. Not enough experts nominated to reinstate project. ISO was to be based on DIN 51348. CEN/TC 19 developed EN 14833 as an alternative which was finalized in 2005.
99	15597	IS/01 (06)	Petroleum and related products – Determination of chlorine and bromine content – Wavelength-dispersive X-ray fluorescence spectrometry	Ralph Hensel	First edition published 2001-02-15. Confirmed following systematic review in 2006. Due for next ISO systematic review in 2011. ISO based on DIN 51577 (Part 3).
100	15911	IS/00 (05)	Petroleum products – Estimation of net specific energy of aviation turbine fuels using hydrogen content data	[Peter David]	First edition published 2000-11-01. Due for ISO systematic review in 2010. ISO based on IP 355.

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101*	16591	DIS/00	Petroleum products – Determination of sulfur content – Oxidative microcoulometry method	John Price	DIS ballot terminated on 2001-01-24 (parallel Enquiry Vote within CEN/TC 19). 2 negative votes submitted [Canada (O-member) & Singapore (P-member)]. Comments resolved by PL but an updated draft not provided. In the interim, project cancelled in October 2003 in accordance with ISO/TMB Resolution 55/1998. Reinstated at ISO/TC 28 meeting (Resolution 13/2006) and agreed a 2 <sup>nd</sup> DIS ballot will be initiated. Awaiting updated 2 <sup>nd</sup> DIS from PL. Project now has a warning: 6 months or less to DIS target date of 2007-10-28. ISO originally based on IP 373/ASTM D3120.
—	18455	TR/99	Petroleum products – Calculation of specific energy of residual fuels from physical and compositional properties – Basic data	[Tim Berryman]	First edition of this type 3 TR published on 1999-09-15. English version corrected and reprinted 2000-04-01. Withdrawn 2005-11-16 in light of 2005 systematic review results (28 N 2264).
102*	20623	IS/03 CD/07	Petroleum and related products – Determination of the extreme-pressure and anti-wear properties of fluids – Four ball method (European conditions)	Udo Boecker	First edition published 2003-12-01. CD ballot initiated on 2007-06-12 and terminates on 2007-09-12. Project now listed as critical: needs to progress to DIS by 2007-11-03. ISO originally based on 7 <sup>th</sup> Luxembourg Report (7.14.2)/IP 239.
103*	20763	IS/04 NP/06 PWI/06	Petroleum and related products – Determination of anti-wear properties of hydraulic fluids – Vane pump method	Ian Bell	First edition published 2004-07-01. NP for revision terminated on 2006-03-20. Registered as a PWI until such time that development work has sufficiently progressed and a revision can be initiated (see AG Res. 7/2006). ISO originally based on CETOP RP 67 H/ DIN 51389-3/IP 281.

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104	20764	IS/03	Petroleum and related products – Preparation of a test portion of high-boiling liquids for the determination of water content – Nitrogen purge method	[Tim Berryman]	First edition published 2003-10-15. Due for ISO systematic review in 2008. ISO originally based on DIN 51777-2.
105	20783-1	IS/03	Petroleum and related products – Determination of emulsion stability of fire-resistant fluids – Part 1: Fluids in category HFAE	Hans Dontje	First edition published 2003-12-01. Due for ISO systematic review in 2008. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.2.1)/DIN 51346.
106	20783-2	IS/03	Petroleum and related products – Determination of emulsion stability of fire-resistant fluids – Part 2: Fluids in category HFB	[David Yardley]	First edition published 2003-12-15. Due for ISO systematic review in 2008. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.2.2, 5.2.3, 5.2.4)/ IP 290.
107	20823	IS/03	Petroleum and related products – Determination of the flammability characteristics of fluids in contact with hot surfaces – Manifold ignition test	David Phillips	First edition published 2003-08-01. Due for ISO systematic review in 2008. ISO originally based on CETOP RP 65 H.
108	20843	IS/03	Petroleum and related products – Determination of pH of fire-resistant fluids within categories HFA and HFC	Claude Barbian	First edition published 2003-09-01. Due for ISO systematic review in 2008. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.4).
109*	20844	IS/04	Petroleum and related products – Determination of the shear stability of polymer-containing oils using a diesel injector nozzle	[Tim Berryman]	First edition published 2004-03-15. Under systematic review. Ballot terminates on 2007-06-18. ISO originally based on 7 <sup>th</sup> Luxembourg Report (5.8)/CETOP RP 112 H/ IP 294/DIN 51382.
—	20845	NP/00	Petroleum and related products – Determination of the corrosion resistance of non-aqueous hydraulic fluids (within class HFD)	[Tim Berryman]	NP ballot terminated 2000-02-25. After the project was registered with ISO/CS, CEN/TC 19/WG 28 decided that the project should become Part 2 to ISO 4404.
110*	20846	IS/04	Petroleum products – Determination of sulfur content of automotive fuels – Ultraviolet fluorescence method	Françoise Douce	First edition published 2004-03-15. Under systematic review. Ballot terminates on 2007-06-18.
111*	20847	IS/04	Petroleum products – Determination of sulfur content of automotive fuels – Energy-dispersive X-ray fluorescence spectrometry	Jim Crighton	First edition published 2004-03-15. Under systematic review. Ballot terminates on 2007-06-18.

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112*	20884	IS/04	Petroleum products – Determination of sulfur content of automotive fuels – Wavelength-dispersive X-ray fluorescence spectrometry	Ralph Hensel	First edition published 2004-03-15. Under systematic review. Ballot terminates on 2007-06-18.
113*	22854	NP/03 DIS/06	Petroleum products – Determination of hydrocarbon types and oxygenates in motor gasoline – Multidimensional gas chromatography method	Han Spaans	DIS ballot terminated on 2006-09-13 (parallel Enquiry Vote within CEN/TC 19 – Revision of EN 14517). 0 negative votes submitted. Comments reviewed by CEN/TC 19/WG 9. English FDIS text submitted to ISO/CS on 2007-05-30 (will be a parallel Formal Vote within CEN/C 19).
114*	26422	NP/05 CD/07	Petroleum and related products — Determination of shear stability of lubricating oils containing polymers — Four ball method using a tapered roller bearing	Simon Peal	CD ballot initiated on 2007-06-07 and terminates on 2007-09-08. Project now listed as critical: needs to progress to DIS by 2007-10-06.
115*	29662	DTR/06	Petroleum products and other liquids — Guide to flash point testing	Mike Sherratt	ISO DTR ballot to adopt CEN/TR 15138 terminated on 2007-03-21. 0 negative votes submitted, but comments under consideration by PL.