



ISO/TC 28 Petroleum products and lubricants

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ISO/TC 28 N 2237

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To: P-members
O-members
L-members

Copy to: ISO/CS

Report of the Secretariat for the 23rd meeting of ISO/TC 28, 9-10 September 2004, Stockholm, Sweden

1. Secretariat *on behalf of ANSI:*

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4. Membership

	<u>2004</u>	(for comparison)	<u>2002</u>	<u>2000</u>	<u>1998</u>	<u>1996</u>
Current membership stands at:	24 P-members		24	27	28	32
	45 O-members		42	38	34	30
	3 Correspondent members		3	2	3	2
Giving a total of:	72 members		69	67	65	64

See Table 1 which lists the current status of each member.

Boldface indicates a change from the last report (28 N 2194).

Notes: [] indicates a member currently suspended for non-payment of dues in arrears.

Kenya has rejoined the committee.

Côte d'Ivoire has joined the committee as a P-member.

Qatar and Azerbaijan have joined the committee as O-members.

India and Trinidad & Tobago have changed status from P-member to O-member.

Canada has left the committee.

Table 1 — Status of ISO/TC 28 Membership

P-members (24)	
Austria	(ON)
Belgium	(IBN)
China	(SAC)
Côte-d'Ivoire	(CODINORM)
Egypt	(EOS)
France	(AFNOR)
Germany	(DIN)
Israel	(SII)
Italy	(UNI)
Japan	(JISC)
Kenya	(KEBS)
Korea, Republic of	(KATS)
Netherlands	(NEN)
Norway	(SN)
Poland	(PKN)
Romania	(ASRO)
Singapore	(SRING SG)
Slovakia	(SUTN)
Spain	(AENOR)
Sweden	(SIS)
Switzerland	(SNV)
Turkey	(TSE)
UK	(BSI)
USA	(ANSI)

O-members (45)	
Algeria	(IANOR)
Argentina	(IRAM)
Australia	(SAI)
Azerbaijan	(AZSTAND)
Barbados	(BNSI)
Belarus	(BELST)
Brazil	(ABNT)
Bulgaria	(BDS)
Chile	(INN)
Croatia	(DZNM)
Cuba	(NC)
Czech Republic	(CSNI)
Ecuador	(INEN)
Ethiopia	(QSAE)
Finland	(SFS)
Greece	(ELOT)
Hungary	(MSZT)
India	(BIS)
Indonesia	(BSN)
Iran	(ISIRI)
Ireland	(NSAI)
Jamaica	(JBS)
Libyan Arab Jamahiriya	(LNCSM)
Malaysia	(DSM)
Mauritius	(MSB)
Mexico	(DGN)
Mongolia	(MNCSM)
[Pakistan	(PSQCA)]
Portugal	(IPQ)
Qatar	(QS)
Russian Federation	(GOST R)
Saudi Arabia	(SASO)
Serbia and Montenegro	(ISSM)
Slovenia	(SIST)
South Africa	(SABS)
Sri Lanka	(SLSI)
Syrian Arab Republic	(SASMO)
Tanzania	(TBS)
Thailand	(TISI)
Trinidad and Tobago	(TTBS)
Tunisia	(INNORPI)
Ukraine	(DSSU)
Venezuela	(FONDONORMA)
Viet Nam	(TCVN)
Zimbabwe	(SAZ)

Correspondent members (3)	
Hong Kong	(ITCHKSAR)
Lithuania	(LST)
Moldova	(MOLDST)

5. Liaisons

5.1 Liaisons established with other committees

ISO/TC 22	Road vehicles
ISO/TC 35	Paints and varnishes
ISO/TC 39	Machine tools
ISO/TC 47	Chemistry
ISO/TC 48	Laboratory Glassware
ISO/TC 48/SC 1	Volumetric instruments
ISO/TC 48/SC 4	Density measurement instruments
ISO/TC 69	Applications of statistical methods
ISO/TC 69/SC 6	Measurement methods and results
ISO/TC 86	Refrigeration and air-conditioning
ISO/TC 86/SC 8	Refrigerants and refrigeration lubricants
ISO/TC 91	Surface active agents
ISO/TC 123/SC 2	[Plain bearings] Materials and lubricants, their properties, characteristics, test methods and testing conditions
ISO/TC 131	Fluid power systems
ISO/TC 147	Water quality
ISO/TC 147/SC 5	[Water quality] Biological methods
ISO/TC 156	Corrosion of metals and alloys
ISO/TC 158	Analysis of gases
ISO/TC 192	Gas turbines
ISO/TC 193	Natural gas
IEC/TC 10	Fluids for electrotechnical applications
CEN/TC 19	Petroleum products, lubricants and related products

5.2 Liaisons established with other organizations

Category A: CETOP European Oil-Hydraulic & Pneumatic Committee

6. Structure

See Table 2.

At the 2002 ISO/TC 28 meeting, the following resolution was adopted:

ISO/TC 28 Resolution 10/2002 ISO 8708

ISO/TC 28 accepts the recommendation of the AG as given in AG Resolution 10, and agrees that as ISO/DIS 8708 *Crude petroleum oil – Determination of distillation characteristics using 15 theoretical plate column*, is not referenced in any ISO/TC 28/SC 4 or CEN/TC 19 specifications (see 28 N 2196), the project shall NOT be balloted for reinstatement onto the work programme, and if necessary, for ASTM D2892 to be considered for reference in its place.

However, ISO/TC 28/WG 3, who was responsible for developing ISO 8708, was never disbanded. I suggest ISO/TC 28 adopt a resolution at the forthcoming plenary to formally disband WG 3.

7. Work programme

An overview of the work programme can be found in document 28 N 2238.

Table 2 – Structure of ISO/TC 28

Committee	Name	Secretariat	Chairman/Convenor	Secretary
ISO/TC 28	Petroleum products and lubricants	API on behalf of ANSI (USA)	Dr. W James Bover ExxonMobil Biomedical Sciences, Inc.	Mrs. Paula D Watkins American Petroleum Institute
ISO/TC 28/AG	ISO/TC 28 Advisory Group	API on behalf of ANSI (USA)	Dr. John L Elzie ChevronTexaco	Mrs. Paula D Watkins American Petroleum Institute
ISO/TC 28/WG 2	Determination and application of precision data in relation to methods of test	BSI (UK)	Mr. John F Church Consultant	
ISO/TC 28/WG 3	Distillation of crude petroleum	AFNOR (France)	Mr. Michel Bourgogne Bureau de Normalisation du Pétrole	
ISO/TC 28/WG 7	Determination of low temperature viscosity of lubricating oils	DIN (Germany)	Dr. Hans D Müller Deutsche Shell AG	
ISO/TC 28/WG 9	Joint ISO/TC 28–ISO/TC 35 WG: Flash point methods	BSI (UK)	Mr. John H R Phipps Energy Institute	
ISO/TC 28/WG 10	Joint ISO/TC 22–ISO/TC 28 WG: Diesel fuel lubricity	ANSI (UK)	Mr. Paul T Henderson Consultant	Mrs. Paula D Watkins American Petroleum Institute
ISO/TC 28/SC 1	Terminology	BNPé on behalf of AFNOR (France)	VACANT	Mr. Jean-Paul Perret Bureau de Normalisation du Pétrole
ISO/TC 28/SC 2	Dynamic petroleum measurement	API on behalf of ANSI (USA)	Mr. Edwin Carlson ExxonMobil Corp.	Mrs. Paula D Watkins American Petroleum Institute
ISO/TC 28/SC 2/WG 3	Pulse interpolation techniques	BSI (UK)	Mr. Richard Paton National Engineering Laboratory	
ISO/TC 28/SC 2/WG 4	Pipe provers	ANSI (USA)	Mr. Stephen Whitman Coastal Flow Measurement, Inc.	
ISO/TC 28/SC 2/WG 5	Joint SC 2–SC 3 WG: Calculation of petroleum quantities		VACANT	
ISO/TC 28/SC 2/WG 6	Dynamic direct mass measurement	BSI (UK)	Mr. Richard Paton National Engineering Laboratory	
ISO/TC 28/SC 2/WG 7	Volumetric measurement by turbine and displacement meter systems		VACANT	
ISO/TC 28/SC 2/WG 8	Joint SC 2–SC 3 WG: Calculation discrimination levels for ISO 4267	ANSI (USA)	Mr. Wesley Poytner Consultant	
ISO/TC 28/SC 3	Static petroleum measurement	BSI (UK)	Mr. Richard Paton National Engineering Laboratory	Mr. Robert E Stratton British Standards Institution
ISO/TC 28/SC 3/WG 1	Tank calibration	ANSI (USA)	Dr. Srinivaraman Consultant	
ISO/TC 28/SC 3/WG 4	Static mass measurement	BSI (UK)	Mr. Milos Machacek APAX Computers Ltd.	
ISO/TC 28/SC 3/WG 6	Direct measurement of temperatures and level in storage tanks – Automatic methods	ANSI (USA)	Dr. Kenneth W Mei Chevron Research & Technology Co.	
ISO/TC 28/SC 3/WG 7	Sampling of petroleum products	ANSI (USA)	Mr. Arthur Kay SGS Control Services, Inc.	
ISO/TC 28/SC 3/WG 8	Revision of ISO 3838	BSI (UK)	Mr. John H R Phipps Energy Institute	

Table 2 (continued) – Structure of ISO/TC 28

Committee	Name	Secretariat	Chairman/Convenor	Secretary
ISO/TC 28/SC 4	Classifications and specifications	BNPé on behalf of AFNOR (France)	Mr. Patrice Béraud-Dufour TOTAL France	Mr. Jean-Paul Perret Bureau de Normalisation du Pétrole
ISO/TC 28/SC 4/AG	ISO/TC 28/SC 4 Advisory Group	AFNOR (France)	VACANT	Mr. Jean-Paul Perret Bureau de Normalisation du Pétrole
ISO/TC 28/SC 4/WG 1	Classifications and specifications of petroleum products and lubricants – General	AFNOR (France)	VACANT	
ISO/TC 28/SC 4/WG 2	Classifications and specifications of lubricants for air, gas & refrigerating compressors	ANSI (USA)	Mr. Charles D Barrett BP	
ISO/TC 28/SC 4/WG 3	Joint ISO/TC 28 - ISO/TC 131 WG: Classification and specifications of hydraulic fluids		VACANT	
ISO/TC 28/SC 4/WG 4	Classification and specifications of lubricants and fire-resistant fluids for turbines	AFNOR (France)	Mr. Daniel Deterre TOTAL France	
ISO/TC 28/SC 4/WG 5	Gas turbine fuels	BSI (UK)	Mr. Tim Berryman Consultant	
ISO/TC 28/SC 4/WG 6	Classification and specification of marine fuels	BSI (UK)	Ms. Wanda Fabrick ITS Testing Services (UK) Ltd.	
ISO/TC 28/SC 4/WG 7	Classification and specification of greases	IBN (Belgium)	Mr. Pierre Belot TOTAL	
ISO/TC 28/SC 4/WG 8	Classification and specification of LPG		VACANT	
ISO/TC 28/SC 4/WG 10	Classification and specification of gear lubricants		VACANT	
ISO/TC 28/SC 4/WG 11	Classification and specifications of metal working fluids & temporary protection against corrosion fluids	AFNOR (France)	Mr. Victor D'Hollander ENSPMFI	
ISO/TC 28/SC 4/WG 12	Two stroke cycle gasoline engine oils	ANSI (USA)	Mr. G Edward Callis Spectrum Corporation	
ISO/TC 28/SC 5	Measurement of light hydrocarbon fluids	NKKK on behalf of JISC (Japan)	Mr. Hiroo Kawahara Consultant	Mr. Hiskazu Uraoka Nippon Kaiji Kentei Kyokai (Japan Marine Surveyors & Sworn Measurers Association)
ISO/TC 28/SC 5/WG 1	Calibration of tanks for refrigerated light hydrocarbon liquids	JISC (Japan)	Mr. Ohshima	
ISO/TC 28/SC 5/WG 2	Gauging instrumentation for refrigerated light hydrocarbon liquids	JISC (Japan)	Mr. Takaaki Tanaka	
ISO/TC 28/SC 5/WG 3	Calculation procedures for LNG (liquefied natural gases)	JISC (Japan)	Mr. K Harada	
ISO/TC 28/SC 6	Bulk cargo transfer, accountability, inspection and reconciliation	API on behalf of ANSI (USA)	Mr. Arthur Kay SGS Control Services, Inc.	Mrs. Paula D Watkins American Petroleum Institute
ISO/TC 28/SC 6/WG 2	Operating principles, accounting procedures and model agreements	BSI (UK)	Mr. Alan Chamberlain Consultant	
ISO/TC 28/SC 6/WG 7	Cargo quality assessment	BSI (UK)	Mr. John H R Phipps Energy Institute	
ISO/TC 28/SC 6/WG 8	Bunkering protocol	PSB (Singapore)	Ms. Li-Lian Lim KMP Coastal Oil Pte Ltd.	Ms. Ho Phuy Bee Singapore Productivity & Standards Board

7. Work programme (continued)

7.1 Work completed

21 International Standards have been published since the 22nd meeting of ISO/TC 28 held in Milan, Italy on 12-14 November 2002.

Project Number	Date Published	Edition Number	Title
2719	2002-11-15	3 rd	Determination of flash point — Pensky-Martens closed cup method
2909	2002-12-15	3 rd	Petroleum products — Calculation of viscosity index from kinematic viscosity
4263-1	2003-03-15	1 st	Petroleum and related products — Determination of the ageing behaviour of inhibited mineral oils and fluids — TOST test — Part 1: Procedure for mineral oils
4263-2	2003-04-15	1 st	Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test — Part 2: Procedure for category HFC hydraulic fluids
5275	2003-06-01	2 nd	Petroleum products and hydrocarbon solvents — Detection of thiols and other sulfur species — Doctor test
8754	2003-07-15	2 nd	Petroleum products — Determination of sulfur content — Energy-Dispersive X-ray fluorescence spectrometry
20823	2003-08-01	1 st	Petroleum and related products — Determination of the flammability characteristics of fluids in contact with hot surfaces — Manifold ignition test
4404-2	2003-08-01	1 st	Petroleum and related products — Determination of the corrosion resistance of fire-resistant hydraulic fluids — Part 2: Non-aqueous fluids
20843	2003-09-01	1 st	Petroleum and related products — Determination of pH of fire-resistant fluids within categories HFAE, HFAS and HFC
20764	2003-10-15	1 st	Petroleum and related products — Preparation of a test portion of high-boiling liquids for the determination of water content — Nitrogen purge method
20623	2003-12-01	1 st	Petroleum and related products — Determination of the extreme-pressure and anti-wear properties of fluids — Four ball method (European conditions)
20783-1	2003-12-01	1 st	Petroleum and related products — Determination of emulsion stability of fire-resistant fluids — Part 1: Fluids in category HFAE
20783-2	2003-12-15	1 st	Petroleum and related products — Determination of emulsion stability of fire-resistant fluids — Part 2: Fluids in category HFB
3679	2004-04-01	3 rd	Determination of flash point — Rapid equilibrium closed cup method
3680	2004-04-01	4 th	Determination of flash/no flash — Rapid equilibrium closed cup method
20847	2004-03-15	1 st	Petroleum products — Determination of sulfur content of automotive fuels — Energy-dispersive X-ray fluorescence spectrometry
20846	2004-03-15	1 st	Petroleum products — Determination of sulfur content of automotive fuels — Ultraviolet fluorescence method
20884	2004-03-15	1 st	Petroleum products — Determination of sulfur content of automotive fuels — Wavelength-dispersive X-ray fluorescence spectrometry
20844	2004-03-15	1 st	Petroleum and related products — Determination of the shear stability of polymer-containing oils using a diesel injector nozzle
20763	2004-07-01	1 st	Petroleum and related products — Determination of anti-wear properties of hydraulic fluids — Vane pump method
13737	2004-07-01	1 st	Petroleum products and lubricants — Determination of low-temperature cone penetration of lubricating greases

7.2 Final draft International Standards balloted

17 final draft International Standards have been balloted since the 22nd meeting of ISO/TC 28 held in Milan, Italy on 12-14 November 2002.

Project Number	Date Circulated	Title
4263-2	2002-12-19	Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test - Part 2: Procedure for category HFC hydraulic fluids
4404-2	2003-03-13	Petroleum and related products — Determination of the corrosion resistance of fire-resistant hydraulic fluids — Part 2: Non-aqueous fluids
20823	2003-03-13	Petroleum and related products — Determination of the flammability characteristics of fluids in contact with hot surfaces — Manifold ignition test
8754	2003-03-27	Petroleum products — Determination of sulfur content — Energy-Dispersive X-ray fluorescence spectrometry
20843	2003-05-01	Petroleum and related products — Determination of pH of fire-resistant fluids within categories HFAE, HFAS and HFC
20764	2003-06-26	Petroleum and related products — Preparation of a test portion of high-boiling liquids for the determination of water content — Nitrogen purge method
20623	2003-08-21	Petroleum and related products — Determination of the extreme-pressure and anti-wear properties of fluids — Four ball method (European conditions)
20783-1	2003-09-04	Petroleum and related products — Determination of emulsion stability of fire-resistant fluids — Part 1: Fluids in category HFAE
20783-2	2003-09-04	Petroleum and related products — Determination of emulsion stability of fire-resistant fluids — Part 2: Fluids in category HFB
20763	2003-11-06	Petroleum and related products — Determination of anti-wear properties of hydraulic fluids — Vane pump method
20844	2003-12-11	Petroleum and related products — Determination of the shear stability of polymer-containing oils using a diesel injector nozzle
20846	2003-12-11	Petroleum products — Determination of sulfur content of automotive fuels — Ultraviolet fluorescence method
20847	2003-12-11	Petroleum products — Determination of sulfur content of automotive fuels — Energy-dispersive X-ray fluorescence spectrometry
20884	2003-12-11	Petroleum products — Determination of sulfur content of automotive fuels — Wavelength-dispersive X-ray fluorescence spectrometry
3679	2003-12-18	Determination of flash point — Rapid equilibrium closed cup method
3680	2003-12-18	Determination of flash/no flash — Rapid equilibrium closed cup method
13737	2004-03-04	Petroleum products and lubricants — Determination of low-temperature cone penetration of lubricating greases

In addition, the following FDIS texts are at ISO/CS awaiting ballot:

Project Number	Date text was submitted to ISO/CS	Title
5163	E: 2004-05-03 F: 2004-07-15	Petroleum products – Determination of knock characteristics of motor and aviation fuels – Motor method
5164	E: 2002-05-03 F: 2004-07-15	Petroleum products – Determination of knock characteristics of motor fuels – Research method

7.3 Draft International Standards balloted

7 draft International Standards have been balloted since the 22nd meeting of ISO/TC 28 held in Milan, Italy on 12-14 November 2002.

Project Number	Date Circulated	Title
3679	2002-12-12	Determination of flash point — Rapid equilibrium closed cup method
3680	2002-12-12	Determination of flash/no flash — Rapid equilibrium closed cup method
4259	2004-04-08	Petroleum products – Determination and application of precision data in relation to methods of test
4263-3	2004-04-29	Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test — Part 3: Anhydrous procedures for synthetic hydraulic fluids
4263-4	2004-04-29	Petroleum and related products — Determination of the ageing behaviour of inhibited oils and fluids — TOST test — Part 4: Procedure for industrial gear oils
2137	2004-06-22	Petroleum products — Determination of cone penetration of lubricating greases and petrolatum
12156-1	2004-07-29	Diesel fuel — Assessment of lubricity using the high-frequency reciprocating rig (HFRR) — Part 1: Test method

7.4 Committee drafts balloted

2 committee drafts have been balloted since the 22nd meeting of ISO/TC 28 held in Milan, Italy on 12-14 November 2002.

Project Number	Date Circulated	Title
12156-1	2003-11-20	Diesel fuel — Assessment of lubricity using the high-frequency reciprocating rig (HFRR) — Part 1: Test method
15029-2	2004-05-05	Petroleum and related products — Determination of spray ignition characteristics of fire-resistant fluids — Part 2: Spray test — Stabilized flame heat release spray method

7.5 New work items balloted

4 new work item proposals have been balloted since the 22nd meeting of ISO/TC 28 held in Milan, Italy on 12-14 November 2002.

ISO/TC 28 N No.	Date Circulated	Title
2202	2003-01-22	NP Liquid petroleum products — Determination of hydrocarbon types and oxygenates in petrol — Multidimensional gas chromatography method
2221	2004-05-05	Combined new work item proposal (NP) and committee draft (CD) ballot for ISO 15029-2 Petroleum and related products — Determination of spray ignition characteristics of fire-resistant fluids — Part 2: Spray test — Stabilized flame heat release spray method
2235	2004-07-28	NP for Amendment to ISO 5163:2004 Petroleum products — Determination of knock characteristics of motor and aviation fuels — Motor method
2236	2004-07-28	NP for Amendment to ISO 5164:2004 Petroleum products — Determination of knock characteristics of motor fuels — Research method

7.6 Standards undergoing systematic review

ISO/TC 28 reviewed the following 14 standards in **2003**:

- ISO 2160:1998 *Petroleum products — Corrosiveness to copper — Copper strip test*
- ISO 3014:1993 *Petroleum products — Determination of the smoke point of kerosine*
- ISO 3830:1993 *Petroleum products — Determination of lead content of gasoline — Iodine monochloride method*
- ISO 4262:1993 *Petroleum products — Determination of carbon residue — Ramsbottom method*
- ISO 5165:1998 *Petroleum products — Determination of the ignition quality of diesel fuels — Cetane engine method*
- ISO 6247:1998 *Petroleum products — Determination of foaming characteristics of lubricating oils*
- ISO 6293-2:1998 *Petroleum products — Determination of saponification number — Part 2: Potentiometric titration method*
- ISO 6299:1998 *Petroleum products — Determination of dropping point of lubricating greases (wide temperature range)*
- ISO 6615:1993 *Petroleum products — Determination of carbon residue — Conradson method*
- ISO 8819:1993 *Liquefied petroleum gases — Detection of hydrogen sulfide — Lead acetate method*
- ISO 10307-2:1993 *Petroleum products — Total sediment in residual fuel oils — Part 2: Determination using standard procedures for ageing*
- ISO 13357-2:1998 *Petroleum products — Determination of the filterability of lubricating oils — Part 2: Procedure for dry oils*
- ISO 14596:1998 *Petroleum products — Determination of sulfur content — Wavelength-dispersive X-ray fluorescence spectrometry*
- ISO 14935:1998 *Petroleum and related products — Determination of wick flame persistence of fire-resistant fluids*

The following 10 standards are under review by ISO/TC 28 **at the present time** (see 28 N 2218):

- ISO 3007:1999 *Petroleum products and crude petroleum — Determination of vapour pressure — Reid method*
- ISO 3012:1999 *Petroleum products — Determination of thiol (mercaptan) sulfur in light and middle distillate fuels — Potentiometric method*
- ISO 3924:1999 *Petroleum products — Determination of boiling range distribution — Gas chromatography method*
- ISO 5661:1983 *Petroleum products — Hydrocarbon liquids — Determination of refractive index*
- ISO 6244:1982 *Petroleum waxes and petrolatums — Determination of drop melting point*
- ISO 6249:1999 *Petroleum products — Determination of thermal oxidation stability of gas turbine fuels — JFTOT method*
- ISO 6295:1983 *Petroleum products — Mineral oils — Determination of interfacial tension of oil against water — Ring method*
- ISO 7941:1988 *Commercial propane and butane — Analysis by gas chromatography*
- ISO 15029-1:1999 *Petroleum and related products — Determination of spray ignition characteristics of fire-resistant fluids — Part 1: Spray flame persistence — Hollow-cone nozzle method*
- ISO 15167:1999 *Petroleum products — Determination of particulate content of middle distillate fuels — Laboratory filtration method*

13 standards will be reviewed in **2005**: ISO 2592, ISO 3016, ISO 3405, ISO 3648, ISO 3987, ISO 4264, ISO 6246, ISO 6614, ISO 6617, ISO 8691, ISO 10478, ISO 11009, and ISO 15911.

7.7 Projects automatically cancelled

7.7.1 ISO/DIS 16591 *Petroleum products – Determination of sulfur content – Oxidative microcoulometry method*

DIS ballot terminated on 2001-01-24 (parallel Enquiry Vote within CEN/TC 19). 2 negative votes submitted [Canada (then an O-member) & Singapore (P-member)]. The Project Leader (PL) eventually resolved comments, but in the interim, the project was automatically cancelled in October 2003 in accordance with ISO/TMB Resolution 55/1998. Once an updated text has been finalized, the project will be submitted for a 3-month ballot in order to reinstate it onto the work programme (perhaps with the recommendation that the updated draft of the standard is submitted for FDIS ballot).

7.7.2 ISO/CD 11008 *Petroleum products and lubricants – Determination of extreme pressure properties of lubricating greases – Four ball method*

CD ballot closed on 1996-09-28. 6 negative votes submitted. It was agreed to split the standard into two parts to give alternative methods for European and U.S. machine speeds (see 28/AG N 194, Res. 13). However, PL did not supply updated drafts and the project was deleted in 1999 in accordance with ISO/TMB Resolution 55/1998. Awaiting advice from ISO/TC 28/SC 4/WG 7 as to whether the project should be balloted for reinstatement. In the interim, ISO 6743-9:2003 (Classification for greases) references IP 239 (European conditions) and ASTM D2596 (American conditions), and ISO/WD 12924:1999 (Specification for greases) references DIN 51350 Part 4 and ASTM D2596.

7.7.3 ISO/WD 11010 *Petroleum products and lubricants – Determination of the upper operating temperature of lubricating greases*

WD (based on ASTM D3336) was edited by the TC 28 Secretary, but had to wait for advice from ISO/TC 28/SC 4/WG 7 on certain technical issues before the draft could be progressed for CD ballot. Whilst waiting for a response from SC 4/WG 7, the project was deleted in accordance with ISO/TMB Resolution 55/1998. Still waiting for advice from SC 4/WG 7 as to whether to ballot the project for reinstatement. A PL also needs to be identified. In the interim, ISO 6743-9:2003 (Classification for greases) and ISO/WD 12924:1999 (Specification for greases) references DIN 51821 Part 2 and ASTM D3336.

7.8 Standards proposed for revision following systematic review

7.8.1 ISO 3104:1994 *Petroleum products – Transparent and opaque liquids – Determination of kinematic viscosity and calculation of dynamic viscosity*

Under revision following systematic review in 1999. A revision text has been prepared by the PL (Bob Manning, USA). However, as ISO 3104 is based on ASTM D445, approval is required by the U.S./TAG and the ASTM D02 Executive Subcommittee before an ISO/CD ballot can be progressed.

7.8.2 ISO 3105:1994 *Glass capillary kinematic viscometers – Specification and operating instructions*

Under revision following systematic review in 1999. Awaiting a revision text from the PL (Bob Manning, USA).

7.8.3 ISO 3771:1994 *Petroleum products – Determination of base number – Perchloric acid potentiometric titration method*

Under revision following systematic review in 1999. Awaiting a revision text from the PL (Janet Lane, USA). However, a DIN working group has started some exploratory work to establish whether alternative solvents (or mixtures of solvents) can be used when carrying out testing according to ISO 3771. The ISO 3771 PL has been in contact with DIN to offer the participation of the corresponding ASTM group in any round robin work, and to determine whether the new data that will be generated can also be incorporated in ASTM D2896.

7.8.4 ISO 7536:1994 *Petroleum products – Determination of oxidation stability of gasoline – Induction period method*

Under revision following systematic review in 1999. A proposed CD text has been prepared. It was reviewed by Richard Heins (UK) who suggested some further modifications. Once the modifications have been incorporated by the TC 28 Secretary into the CD, and the updated CD approved by the PL (David

Forester, USA), a CD ballot could be initiated. However, as ISO 7536 is based on ASTM D525, approval is required by the U.S./TAG and the ASTM D02 Executive Subcommittee before an ISO/CD ballot can be progressed.

7.8.5 ISO 12156-1:1997 Diesel fuel – Assessment of lubricity using the high-frequency reciprocating rig (HFRR) – Part 1: Test method

Under revision following systematic review in 2002. CD ballot (within ISO/TC 22/SC 7 and ISO/TC 28) terminated on 2004-02-20. 0 negative votes submitted. DIS ballot initiated on 2004-07-29 and terminates on 2004-12-29. See also document 28 N 2239.

7.8.6 ISO 13736:1997 Petroleum products and other liquids – Determination of flash point – Abel closed cup method

Under revision following systematic review in 2002. Target date for submission of CD text: 2004-10-30.

7.8.7 ISO 14596:1998 Petroleum products – Determination of sulfur content – Wavelength-dispersive X-ray fluorescence spectrometry

Under revision following systematic review in 2003. CEN/TC 19/WG 26 determining precision for FAME. Need to set a target date for submission of the CD text. PL is Ralph Hensel, Germany.

7.9 Preliminary work items (PWIs)

7.9.1 ISO 2977 Petroleum products and hydrocarbon solvents – Determination of aniline point and mixed aniline point

Confirmed in 2002 following systematic review. Also listed as a PWI so that comments from the review can be evaluated (see Res. 15 of 28 N 2200). ISO originally based on ASTM D611. A PL needs to be identified.

7.9.2 ISO 3013 Petroleum products – Determination of the freezing point of aviation fuels

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). In addition, ISO 3013 was placed on a study list (see AG Res. 9 of 28/AG N 242) to determine whether there is duplication of effort between ISO/TC 28 and ASTM D02. PL is Mike Sherratt, UK.

7.9.3 ISO 3015 Petroleum products – Determination of cloud point

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 determining precision for FAME. PL is Beth Porlier, USA.

7.9.4 Revision of ISO 4264 Petroleum products – Calculation of cetane index of middle-distillate fuels by the four-variable equation

The TC 28 Secretary received revised figures for inclusion in a new edition of ISO 4264. She was awaiting advice from the PL (Peter David, UK) on whether modifications were also required to the text, but the PL has since retired.

7.9.5 Revision of ISO 6246 Petroleum products – Gum content of light and middle distillate fuels – Jet evaporation method

A CD text has been prepared and is awaiting ballot by the TC 28 Secretary. However, as ISO 6246 is based on ASTM D381, approval is required by the U.S./TAG and the ASTM D02 Executive Subcommittee before an ISO/CD ballot can be progressed. PL is Kevin Bly, USA.

7.9.6 ISO 6250 Petroleum products – Determination of the water reaction of aviation fuels

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). In addition, ISO 6250 was placed on a study list (see AG Res. 9 of 28/AG N 242) to determine whether there is duplication of effort between ISO/TC 28 and ASTM D02. Moreover, the PL (Richard Heins, UK) has since resigned.

7.9.7 ISO 6297 Petroleum products – Aviation and distillate fuels – Determination of electrical conductivity

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). PL is Richard Heins, UK.

7.9.8 Revision of ISO 7941 Commercial propane and butane – Analysis by gas chromatography

Confirmed following systematic review in 1998. But it was also agreed that a revision would be initiated once an updated technique (to replace ASTM D2163) was balloted within ASTM D02 (and hence ISO 7941 was registered on the work programme as preliminary work item). Simultaneous revision with ISO 8973 considered (see Res. 20 of 28 N 2200). Now under systematic review again. Ballot terminates on 2004-08-06. PL is Jean-Paul Perret, France.

7.9.9 ISO 8973 Liquefied petroleum gases – Calculation method for density and vapour pressure

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 comments on ISO 7941 under item 7.9.8. PL is Jean-Paul Perret, France.

7.9.10 Revision of ISO 10307-1 Petroleum products – Total sediment in residual fuel oils – Part 1: Determination by hot filtration

Confirmed following systematic review in 1998. But it was also agreed that a revision would be initiated once the new precision evaluation had been completed (and hence ISO 10307-1 was registered on the work programme as preliminary work item). PL is Tim Berryman, UK.

7.9.11 ISO 10307-2 Petroleum products – Total sediment in residual fuel oils – Part 2: Determination using standard procedures for ageing

Confirmed following systematic review in 2003. Also registered as a PWI to consider revisions to corresponding ASTM standard, D4870. PL is Tim Berryman, UK.

7.9.12 Revision of ISO 10370 Petroleum products – Determination of carbon residue – Micro method

Confirmed following systematic review in 1998. But it was also agreed that a revision would be initiated once the new precision evaluation had been completed. CEN/TC 19/WG 26 are also determining the precision for FAME. PL is Tim Berryman, UK.

7.9.13 ISO 11007 Petroleum products and lubricants – Determination of rust-prevention characteristics of lubricating greases

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). A PL needs to be identified.

7.9.14 ISO 15029-3 Petroleum and related products – Determination of spray ignition characteristics of fire-resistant fluids – Part 3: Spray test – Large scale method

A CD text has been edited and the PL has responded to a number of queries raised by the ISO/TC 28 Secretary. Once the text has been finalized, a 3-month combined NP-CD ballot is planned. PL is Margaret Simonson, Sweden.

7.10 Standards to be proposed for withdrawal

7.10.1 ISO 2207:1980 Petroleum waxes – Determination of congealing point

See Res. 25 of 28 N 2200.

7.10.2 ISO 2908:1974 Petroleum waxes – Determination of oil content

See Res. 25 of 28 N 2200.

7.10.3 ISO 3837:1993 Liquid petroleum products – Determination of hydrocarbon types – Fluorescent indicator adsorption method

See Res. 14 of 28 N 2220.

7.10.4 ISO 3841:1977 Petroleum waxes – Determination of the melting point (cooling curve)

See Res. 25 of 28 N 2200.

7.10.5 ISO 4265:1986 Petroleum products – Lubricating oils and additives – Determination of phosphorus content – Quinoline phosphomolybdate method

To be proposed for withdrawal based on the results of the 2002 systematic review (see 28 N 2171).

7.10.6 ISO 5662:1997 Petroleum products – Electrical insulating oils – Detection of corrosive sulfur

See Res. 17 of 28 N 2200. In accordance with this resolution, the TC 28 Secretary informed the IEC/TC 10 Secretariat of our intention to propose ISO 5662 for withdrawal. A response from the IEC/TC 10 Chairman was received noting that the IEC committee would be meeting in July 2004 and the matter would be discussed at that time. No further information from IEC/TC 10 on ISO 5662 has at yet been received.

7.10.7 ISO 6073:1997 Petroleum products – Prediction of the bulk moduli of petroleum fluids used in hydraulic fluid power systems

See Res. 18 of 28 N 2200. In accordance with this resolution, the TC 28 Secretary informed the ISO/TC 131 Secretary of our intention to propose ISO 6073 for withdrawal. A response from the TC 131 Secretary noted that ISO 6073 is NOT referenced in any TC 131 standards. No nomination for a PL was forthcoming from TC 131. The UK was also unable to identify a PL.

7.10.8 ISO 6295:1983 Petroleum products – Mineral oils – Determination of interfacial tension of oil against water – Ring method

See Res. 25 of 28 N 2200. Standard is also currently under systematic review.

7.11 Standards not listed elsewhere in the report that require a project leader

7.11.1 ISO 3684 Aviation fuels – Estimation of net specific energy

With sadness I report the death of Steve Bonifazi, PL to ISO 3648. This standard is due for systematic review in 2005.

7.11.2 ISO 3839 Petroleum products – Determination of bromine number of distillates and aliphatic olefins – Electrometric method

Due for systematic review in 2006. Replacement of 1,1,1-trichloroethane is an issue. In addition, ISO 3839 was placed on a study list (see AG Res. 9 of 28/AG N 242) to determine whether there is duplication of effort between ISO/TC 28 and ASTM D02.

7.11.3 ISO 4404-1 Petroleum and related products – Determination of the corrosion resistance of fire-resistant hydraulic fluids — Part 1: Water-containing fluids

Due for systematic review in 2006. ISO 4404:1998 (which preceded ISO 4404-1:2001) is referenced in ISO 12922:1999 *Lubricants, industrial oils and related products (class L) – Family H (Hydraulic systems) – Specifications for categories HFAE, HFAS, HFB, HFC, HFDR and HFDU*.

7.11.4 ISO 7120 Petroleum products and lubricants – Petroleum oils and other fluids – Determination of rust-preventing characteristics in the presence of water

ISO 7120:1987 was under revision following systematic review in 1992 (action was actually deferred until 1994). A CD text was prepared and was under review by PL, but then the PL resigned. Project automatically cancelled in February 2002 in accordance with ISO/TMB Resolution 08/2001. ISO originally based on ASTM D665. In addition, ISO 7120 was placed on a study list (see AG Res. 9 of 28/AG N 242) to determine whether there is duplication of effort between ISO/TC 28 and ASTM D02.

7.11.5 ISO 7624 Petroleum products and lubricants – Inhibited mineral turbine oils – Determination of oxidation stability

Confirmed following systematic review in 2002. ISO 7624 is referenced in ISO 8068:1987 *Petroleum products and lubricants – Petroleum lubricating oils for turbines (categories ISO-L-TSA and ISO-L-TGA) – Specifications*, which is under revision.

8. Summary

Although its productivity remains fairly high, ISO/TC 28 is devoting a significant portion of its resources to maintaining its existing standards (as shown by the number of standards being reviewed and revised each year) rather than developing new standards. For such a dynamic industry, it has been recognized that this may not be the optimum way of utilizing these resources. Furthermore, the number of participating members of ISO/TC 28 has gradually declined over the years (conversely, the number of observer members has increased), and the technical committee has been unable to identify project leaders for a number of standards.

Due to these factors and others, ISO/TC 28 has sought to improve cooperation with other petroleum standards developing organizations (SDOs) such as ASTM International. At the 2002 ISO/TC 28 meeting held in Milan, a memorandum of understanding (MoU) was developed with ASTM D02 and CEN/TC 19. A task group was established to develop implementation procedures for the MoU, and this group has been steadily working on finding practical ways for ISO/TC 28, ASTM D02 and CEN/TC 19 to work together. This work is ongoing, and therefore it should be recognized that we are in a transition period between members understanding that the way we previously carried out our work needs to be updated, and finding sensible new ways of working cooperatively with other SDOs in order to fulfill the needs of standards users.

Yours sincerely

Paula Watkins

Paula Watkins
Secretary to ISO/TC 28