



CODE BULLETIN C-46

American Chemistry Council Product Approval Code of Practice December 2010 Edition

To: Practitioners of the American Chemistry Council
Product Approval Code of Practice and Interested Parties

**Original
Issue date:** October 22, 2015

**Effective
Date:** November 20, 2015

Re: Appendix B Revisions
Product Approval Code of Practice – December 2010 Edition

The American Chemistry Council's (ACC) Product Approval Protocol Task Group (PAPTG) reached consensus to revise Appendix B in an effort to provide further flexibility registering engine tests. The Existing text below incorporates the edits shown in Code Bulletin C-45, which went into effect on May 29, 2015. Proposed edits to Appendix B are provided below the existing text.

Existing Text on Page B-2 through Page B-6, Appendix B

Part A: Test Sponsor Information

1. **SPONSOR**: The name of the Test Sponsor.
2. **CONTACT**: The name, address, phone, e-mail address and fax number of the appropriate Point of Contact at the Test Sponsor.
3. **DATE**: The date the test request is transmitted to the laboratory.
4. **FORMULATION CODE**: The code used to identify the candidate formulation, following the standard industry practice shown below and detailed later in this Appendix:

Sponsor ID - Sponsor Code - Mod. - Blend - Test - Count - Lab



The Formulation Code is used to schedule and register all tests, modifications and blends. The Sponsor ID, Sponsor Code, Modification, and Blend Number portion of this formulation number are used to identify the candidate oils at the Test Laboratory.

a) **VISCOSITY**: SAE J300 Engine Oil Viscosity Classification.

b) **SPONSOR IN-HOUSE NUMBER**: Space for the Test Sponsor to insert desired in-house code. Entry is optional.

5. **TEST**: The engine test desired on the candidate.

6. **TEST LABORATORY**: The name of the test laboratory.

Part B: Test Laboratory Information

1. **LAB CONTACT**: The name, address, e-mail address, phone and fax number of the appropriate point of contact at the laboratory.

2. **FORMULATION/STAND CODE**: The Formulation Code in Part A, Item 4 with the assigned stand code added.

Sponsor ID - Sponsor Code - Mod. - Blend - Test - Count - Lab - Stand

The Test Laboratory will include the entire Formulation/Stand Code on all test reports.

3. **FORMULATION (CODING)**

Sponsor ID - Sponsor Code - Modification - Blend - Test - Count - Lab - Stand

a) **ID**: A two letter permanent code chosen by the Test Sponsor and registered with the ACC Monitoring Agency.

b) **Sponsor Code**: An up-to-ten character alphanumeric field assigned by the Test Sponsor to facilitate tracking and auditing. Dashes, slashes and special characters, etc. are not permitted. The Test Sponsor inserts this code.

c) **Modification**: A one or two letter code used to designate minor modification of a formulation. Available coding would encompass modifications A through ZZ. The test Sponsor inserts this code.

d) **Blend**: A one or two digit number code used to designate the blend batch of the candidate. 1 = first batch, 2 = second batch, 10= tenth batch, etc., and would encompass blends 1 through 99. The Test Sponsor inserts this code.



- e) **Test:** An up-to-six character code used to designate the type of test run.

PC		HD	
Test	Code	Test	Code
Sequence IIIF	IIIF	Caterpillar 1N	1N
Sequence IIIG	IIIG	Caterpillar 1M-PC	1MPC
Sequence IIIGA	IIIGA	Caterpillar 1K	1K
Sequence IIIGB	IIIGB	Caterpillar 1P	1P
Sequence IVA	IVA	Caterpillar 1R	1R
Sequence VG	VG	Caterpillar C13	C13
Sequence VIB	VIB	Mack T-8	T8
Sequence VIBSJ	VIBSJ	Mack T-8E	T8E
Sequence VID	VID	Mack T-11	T11
Sequence VIII	VIII	Mack T-12	T12
		Cummins ISB	ISB
		Cummins ISM	ISM
		RFWT	65L
		Sequence IIIFHD	IIIFHD

This code is permanent for each test type and is assigned by the ACC Monitoring Agency. The Test Sponsor inserts this code.

- f) **Count:** An up-to-two digit number code used to designate the number of times Part A of the Registration Form for the candidate, as identified by "Sponsor ID", "Sponsor Code" and "Mod", has been submitted to a test laboratory within a designated "test type". 1 = the first test submitted to any test laboratory for a given Sponsor ID and Sponsor Code, 2 = the second test submitted to any test laboratory for the same Sponsor ID and Sponsor Code, etc. The count number shall be reset with each minor formulation modification. The Test Sponsor inserts this code.
- g) **Lab:** A two letter code used to identify the test laboratory at which the test is conducted. This code is unique and permanent for each test laboratory and is the same as the code used by the ASTM TMC for the test laboratory. The Test Sponsor inserts this code.
- h) **Stand:** An up-to-five alphanumeric code which identifies the test stand in which the candidate will be tested. The stand is selected by the test laboratory in accordance with [Appendix D](#). The laboratory provides this code in Part B of the Registration Form.

Use of the Code is encouraged. Any party interested in sponsoring tests under the Code may do so by requesting a Test Sponsor ID from the ACC Monitoring Agency by telephone or letter.

(Coding) Clarifications: Modifications are noted in accordance with the Guidelines for Minor Formulation Modifications defined in Appendix H. When a modification is made in accordance with Appendix H, the modification letter in this space is changed to another letter (see Example B-1).

Example B-1*

The following table is an example in which the Test Sponsor chooses to run the Sequence IIIF test first,



demonstrates these principles:

Step	Activity	Mod.	Blend	Test	Count
1	Testing starts	A	1	IIIF	1
2	Repeat test, same blend as Steps 1 and 2	A	1	IIIF	2
3	Minor Mod. on oil from Steps 1 and 2	B	1	IIIF	1
4	Repeat test, same blend as Step 3	B	1	IIIF	2
5	Reblend oil from Steps 3 and 4, repeat test	B	2	IIIF	3
6	New test type on same blend as Step 5	B	2	VG	1
7	Reblend oil from Steps 5 and 6, repeat test	B	3	VG	2

*Examples and Illustrations in the ACC Code of Practice are designed to assist in the interpretation of various elements and guidelines in the Code of Practice. They are not meant to be comprehensive in that they do not define the guidelines and exist to clarify the elements or guidelines not to limit them to the circumstances shown in the example or illustration.

Test Sponsor ID: The following codes have been requested by and permanently assigned for exclusive use by the test sponsors in the ACC Code of Practice registration process:

- AA - American Automobile Manufacturers Association
- AP - American Petroleum Institute
- CG - CIBA-Specialty Chemicals Corporation
- CI - BP Lubricants USA
- CA - BP Global Technology- Lubricants UK Ltd.
- CL - Conoco, Inc.
- DB - E. I. DuPont de Nemours and Company
- EU - EniTechnologie
- LB - Afton Chemical Corporation
- EM - ExxonMobil Research & Engineering
- FM - Ford Motor Company
- FG - FUCHS DEA Schmierstoffe GmbH
- HR - Honda R&D Americas, Inc.
- IM - Infineum
- IN - Intevep, S.A.



- JL - Jimioil Ltd.
- KP - Kuwait Petroleum Research and Technology B.V.
- ML - MOL-LUB Ltd.
- NM - NatOil GmbH & Co. KG
- NO - Nippon Oil (U.S.A.) Ltd.
- OR - Chevron Oronite Company LLC
- PZ - Pennzoil Products Company
- LX - Petro-Canada Products Lubricants Department
- PA - RohMax USA
- VP - RohMax GmbH
- EL - Shell Oil Products Company
- SC - Shell Chemical Company
- SR - Shell Global Solutions
- TE - Test Engineering, Inc.
- TL - Texaco Inc.- R&D Beacon
- TS - Chevron Technology Ghent
- RM - The Lubrizol Corporation
- VL - The Valvoline Company
- GR - Worldwide Petromoly Corporation
- BL - Bestline International Research, Inc.
- QM - Quantum Marketing

Laboratory Sponsor ID: The following codes have been requested by and permanently assigned for exclusive use by the test sponsors in the ACC Code of Practice registration process:

- EV - Afton Chemical Corporation
- AS - Ashland Petroleum Company



- MB - ExxonMobil Research & Engineering
- EP - Imperial Oil
- EG - Intertek Automotive Research
- IJ - I.S.P. France
- LZ - The Lubrizol Corporation - Wickliffe Laboratory
- OT - Chevron Oronite Technology b.v.
- SR - Southwest Research Institute

Proposed Text on Page B-2 through Page B-6, Appendix B

Part A: Test Sponsor Information

1. **SPONSOR**: The name of the Test Sponsor.
2. **CONTACT**: The name, address, phone, e-mail address and fax number of the appropriate Point of Contact at the Test Sponsor.
3. **DATE**: The date the test request is transmitted to the laboratory.
4. **FORMULATION CODE**: The code used to identify the candidate formulation, following the standard industry practice shown below and detailed later in this Appendix:

Sponsor ID - Sponsor Code - Mod. - Blend - Test - Count - Lab

The Formulation Code is used to schedule and register all tests, modifications and blends. The Sponsor ID, Sponsor Code, Modification, and Blend Number portion of this formulation number are used to identify the candidate oils at the Test Laboratory.

a) **VISCOSITY**: SAE J300 Engine Oil Viscosity Classification.

b) **SPONSOR IN-HOUSE NUMBER**: Space for the Test Sponsor to insert desired in-house code. Entry is optional.

c) **Expected NOACK Volatility > 15: To be checked by the Test Sponsor for Sequence IIIF tests only.**

5. **TEST**: The engine test desired on the candidate.



6. **TEST LABORATORY**: The name of the test laboratory.

Part B: Test Laboratory Information

1. **LAB CONTACT**: The name, address, e-mail address, phone and fax number of the appropriate point of contact at the laboratory.
2. **FORMULATION/STAND CODE**: The Formulation Code in Part A, Item 4 with the assigned stand code added.

Sponsor ID - Sponsor Code - Mod. - Blend - Test - Count - Lab - Stand

The Test Laboratory will include the entire Formulation/Stand Code on all test reports.

3. **FORMULATION (CODING)**

Sponsor ID - Sponsor Code - Modification - Blend - Test - Count - Lab - Stand

- a) **ID**: A two letter permanent code chosen by the Test Sponsor and registered with the ACC Monitoring Agency.
- b) **Sponsor Code**: An up-to-ten character alphanumeric field assigned by the Test Sponsor to facilitate tracking and auditing. Dashes, slashes and special characters, etc. are not permitted. The Test Sponsor inserts this code.
- c) **Modification**: A one or two letter code used to designate minor modification of a formulation. Available coding would encompass modifications A through ZZ. The test Sponsor inserts this code.
- d) **Blend**: A one or two digit number code used to designate the blend batch of the candidate. 1 = first batch, 2 = second batch, 10= tenth batch, etc., and would encompass blends 1 through 99. The Test Sponsor inserts this code.



- e) **Test:** An up-to-six character code used to designate the type of test run.

PC		HD	
Test	Code	Test	Code
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Sequence IIIG	IIIG	Caterpillar 1M-PC	1MPC
Sequence IIIGA	IIIGA	Caterpillar 1K	1K
Sequence IIIGB	IIIGB	Caterpillar 1P	1P
Sequence IVA	IVA	Caterpillar 1R	1R
Sequence VG	VG	Caterpillar C13	C13
Sequence VIB	VIB	Mack T-8	T8
Sequence VIBSJ	VIBSJ	Mack T-8E	T8E
Sequence VID	VID	Mack T-11	T11
Sequence VIII	VIII	Mack T-12	T12
		Cummins ISB	ISB
		Cummins ISM	ISM
		RFWT	65L
		Sequence IIIFHD	IIIFHD
		CAT Oil Aeration Test	COAT
		Volvo T-13	T13

This code is permanent for each test type and is assigned by the ACC Monitoring Agency. The Test Sponsor inserts this code.

- f) **Count:** An up-to-two digit number code used to designate the number of times Part A of the Registration Form for the candidate, as identified by "Sponsor ID", "Sponsor Code" and "Mod", has been submitted to a test laboratory within a designated "test type". 1 = the first test submitted to any test laboratory for a given Sponsor ID and Sponsor Code, 2 = the second test submitted to any test laboratory for the same Sponsor ID and Sponsor Code, etc. The count number shall be reset with each minor formulation modification. The Test Sponsor inserts this code.
- g) **Lab:** A two letter code used to identify the test laboratory at which the test is conducted. This code is unique and permanent for each test laboratory and is the same as the code used by the ASTM TMC for the test laboratory. The Test Sponsor inserts this code.
- h) **Stand:** An up-to-five alphanumeric code which identifies the test stand in which the candidate will be tested. The stand is selected by the test laboratory in accordance with [Appendix D](#). The laboratory provides this code in Part B of the Registration Form.

Use of the Code is encouraged. Any party interested in sponsoring tests under the Code may do so by requesting a Test Sponsor ID from the ACC Monitoring Agency by telephone or letter.

(Coding) Clarifications: Modifications are noted in accordance with the Guidelines for Minor Formulation Modifications defined in Appendix H. When a modification is made in accordance with Appendix H, the modification letter in this space is changed to another letter (see Example B-1).

Example B-1*



The following table is an example in which the Test Sponsor chooses to run the Sequence IIF test first, demonstrates these principles:

Step	Activity	Mod.	Blend	Test	Count
1	Testing starts	A	1	IIF	1
2	Repeat test, same blend as Steps 1 and 2	A	1	IIF	2
3	Minor Mod. on oil from Steps 1 and 2	B	1	IIF	1
4	Repeat test, same blend as Step 3	B	1	IIF	2
5	Reblend oil from Steps 3 and 4, repeat test	B	2	IIF	3
6	New test type on same blend as Step 5	B	2	VG	1
7	Reblend oil from Steps 5 and 6, repeat test	B	3	VG	2

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Test Sponsor ID: The following codes have been requested by and permanently assigned for exclusive use by the test sponsors in the ACC Code of Practice registration process:

- AA - American Automobile Manufacturers Association
- AP - American Petroleum Institute
- BL - BestLine International Research, Inc.
- CA - Lubricants UK Ltd.
- CG - **BASF Corporation**
- CI - Lubricants UK Ltd.
- CL - Conoco, Inc.
- DB - E.I. Dupont De Nemours & Company
- EL - Shell Oil Products Company
- EM - ExxonMobil Research & Engineering
- ES - Elevance Renewable Sciences**
- EU - EniTechnologie
- FG - FUCHS Petrolub AG
- FM - Ford Motor Company
- GE - Green Earth Technologies, Inc.
- GR - Worldwide Petromoly Corporation
- GW - Sinopec Lubricant Co., LTD**
- HR - Honda R&D Americas, Inc.
- IK - Idemitsu Kosan CO., LTD**
- IM - Infineum
- IN - Intevp, S.A.
- JL - Jimioil Ltd.
- KP - Kuwait Petroleum Research and Technology B.V.
- LB - Afton Chemical Corporation
- LU - LUKOIL Lubricants Company**
- LX - Petro-Canada Products Lubricants Department
- ML - MOL-LUB Ltd.
- NM - Natoil GmbH & Co. KG
- NO - Nippon Oil (U.S.A.) Ltd.



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- OR - Chevron Oronite Company LLC
- PA - RohMax USA
- PC - Lanzhou Lube Oil R&D Institute of Petrochina**
- PD - PetroChina Dalian Lube Oil R&D Institute**
- PP - Peaks and Praires LLC
- PX - Permatex, Inc.
- PZ - Pennzoil Products Company
- QM - Quantum Marketing, Inc.
- RM - The Lubrizol Corporation
- SC - Shell Chemical Company
- SR - Shell Global Solutions
- TC - Tianhe Chemicals Additives Division**
- TE - Test Engineering, Inc.
- ~~TL - Texaco, Inc. R&D Beacon~~
- TO - Total Lubrifiants
- TS - ChevronTexaco Technology Ghent
- VL - The Valvoline Company
- VP - RohMax GmbH

Laboratory Sponsor ID: The following codes have been requested by and permanently assigned for exclusive use by the test sponsors in the ACC Code of Practice registration process:

- EV - Afton Chemical Corporation
- AS - Ashland Petroleum Company
- MB - ExxonMobil Research & Engineering
- ~~EP - Imperial Oil~~
- EG - Intertek Automotive Research
- IJ - I.S.P. France
- LZ - The Lubrizol Corporation - Wickliffe Laboratory
- OT - Chevron Oronite Technology b.v.
- SR - Southwest Research Institute

The Code is available online at <http://www.americanchemistry.com/paptg>. Comments to this Code Bulletin (C-46) should be sent to the PAPTG Manager, [W.D. \(Doug\) Anderson](#) prior to November 20, 2015.

