



CODE BULLETIN C-48

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: March 24, 2016**

**Effective
Date: April 22, 2016**

**Re: Appendix H – Edits to Guidelines for Minor Formulation Modifications
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 H for the purpose of the applicability of new heavy-duty engine tests. Existing text and proposed edits to Appendix H are provided below.

Existing Text on Page H-1

Purpose

This appendix outlines the allowable modifications which can be made during the development of a Core Data Set (Tab 1).

During the development of the Core Data Set, Minor Formulation Modification Guidelines and API Guidelines for SAE Viscosity-Grade Engine Testing (API 1509 Appendix F) may be used. Additionally, for a matrix approach, API Base Oil Interchangeability Guidelines (API 1509 Appendix E) may also be used.

General Guidelines

Guidelines for minor formulation modifications allow the formulator to make small adjustments in the candidate formulation during the conduct of a test program so that a failed test(s) does not force discarding passing results for previously run test types. Such minor modifications are made with the intent that they result in a discernible improvement in performance. Minor formulation modifications made during the conduct of a Program are based on fundamental formulation knowledge and agreed to by the customer.

If minor formulation modifications are used during the conduct of an engine test program, such minor modifications are permitted with the expectation that the final formulation contain all modifications and will pass all the engine and chemical & physical tests required by the performance claim. Supporting data will be required to ensure that minor modifications will not deteriorate performance in tests previously passed.



All minor modifications and support data will be disclosed to the customer and included in the Candidate Data Package (Appendix E).

Specific guidelines are provided for the following engine test Sequences IIIF, IIIG, IVA, VG, VIB, VID and VIII and are listed in the section titled “Guidelines for Specific Engine Tests”.

Proposed Text on Page H-1

Purpose

For all engine tests accepted into the Code of Practice, minor formulation modifications can be applied. This appendix outlines the allowable modifications which can be made during the development of a Core Data Set (Tab 1).

During the development of the Core Data Set, Minor Formulation Modification Guidelines and API Guidelines for SAE Viscosity-Grade Engine Testing (API 1509 Appendix F) may be used. Additionally, for a matrix approach, API Base Oil Interchangeability Guidelines (API 1509 Appendix E) may also be used.

General Guidelines

Guidelines for minor formulation modifications allow the formulator to make small adjustments in the candidate formulation during the conduct of a test program so that a failed test(s) does not force discarding passing results for previously run test types. Such minor modifications are made with the intent that they result in a discernible improvement in performance. Minor formulation modifications made during the conduct of a Program are based on fundamental formulation knowledge and can include but are not limited to those modifications described in the “Guidelines for Specific Engine Tests”.

If minor formulation modifications are used during the conduct of an engine test program, such minor modifications are permitted with the expectation that the final formulation contain all modifications and will pass all the engine and chemical & physical tests required by the performance claim. Supporting data will be required to ensure that minor modifications will not deteriorate performance in tests previously passed.

All minor modifications and support data will be disclosed to and agreed to by the customer and included in the Candidate Data Package (Appendix E).

The General Guidelines for minor modifications apply to all of the tests accepted into the ACC Code of Practice. Specific guidelines are provided for the following engine test Sequences IIIF, IIIG, IVA, VG, VIB, VID and VIII and are listed in the section titled “Guidelines for Specific Engine Tests”.

Existing Text on Page H-3

9. Variations in pour point depressant and/or foam inhibitor type or treatment level are acceptable changes with Level 1 support.

Proposed Text on Page H-3

9. Variations in pour point depressant and/or foam inhibitor type or treatment level are acceptable changes with Level 1 support. When changing foam inhibitor type or treatment level in the Caterpillar Oil Aeration Test (COAT), Level 1 support alone is not adequate; fundamental formulation knowledge support must exist to ensure performance is not deteriorated in this test.



American Chemistry Council Code Bulletin C-48

March 24, 2016

Page 3

The Code is available online at <http://www.americanchemistry.com/paptg>. Comments to this Code Bulletin (C-48) should be sent to the PAPTG Manager, [W.D. \(Doug\) Anderson](#) prior to April 22, 2016.

