

To: API Lubricants Group
Cc: Lubricants Group Mailing List
API

Evergreening Annex N

On August 21, 2020 the Lubricants Standards Group (LSG) reviewed “*Making Annex N (MTEP) Evergreen*”. Oronite reported that during a review of the ACC Code of Practice, it was noted that lists of tests and their MTEP appeared in the ACC Code of Practice, ASTM D4485 and API 1509. API 1509, Annex N just reprinted the information from the ACC Code of Practice, Annex F. ACC proposed that, because ACC Technical Advisory Group develops a test’s MTEP, the list of tests, parameters and their MTEP appear only in the ACC Code of Practice Appendix F and that API 1509 Annex N refer to that document. Subsequently Oronite moved that 1509 Annex N be changed to following text.

Annex N Multiple Test Evaluation Procedure

N.1 General

The Multiple Test Evaluation Procedure (MTEP) is any data-based approach for evaluation of the quality and performance of a formulation where more than one test has been run.

The use of American Chemistry Council accepted MTEP ensures that all test sponsors base the performance representation of engine oils on a uniform treatment of data. Appendix F of the ACC Petroleum Additives Product Approval Code of Practice provides detailed instructions on how to perform calculations using all of the relevant Multiple Test Evaluation Procedures and guidelines to use for specifications that do not indicate how to handle test data.

The ACC Code of Practice can be found at the following link.

<https://www.americanchemistry.com/ProductsTechnology/PAPTG/PAPTG-Code-of-Practice-Resources/Petroleum-Additives-Product-Approval-Code-of-Practice.pdf>

The LSG discussed the Oronite action *Making Annex N (MTEP) Evergreen*. During the discussion, the wording was revised to read as follows.

Annex N Multiple Test Evaluation Procedure

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Appendix F of the ACC Petroleum Additives Product Approval Code of Practice can be found at the ACC web site www.AmericanChemistry.com

Subsequently Oronite made a Motion for the LSG to Ballot: API 1509 Evergreening Annex N.

Motion: Ballot Evergreening Annex N

- **Motion by Laura Birnbaumer, Oronite**
- **Seconded by Bill O’Ryan, Lubrizol**

Discussion of Motion: No Additional Discussion

LSG Member Vote:

- **Disapprove = 0**
- **Abstain= 0**
- **Approve = All other LSG Members**

LSG agreed to Ballot

A detailed ballot draft of Annex N Ballot is given below. (Also Attachment 1) This is how the Ballot will be implemented in API 1509.

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The presentation Making Annex N (MTEP) Evergreen is given as ballot support in Attachment 2.

Lubricants Group Members should use the API Ballot System to cast their vote and make comments. The Ballot Link is: <http://Ballots.api.org>. The Lubricants Group Member votes will be counted, and all received comments reviewed and considered before the ballot results are final.

Non-Lubricants Group Members should comment on the Ballot Motion using the Ballot system. The Ballot Link is: <http://Ballots.api.org>. All comments on the Ballot Motion will be reviewed before the ballot results are final.

This Ballot will close on September 25, 2020. All Votes and/or Comments must be received by that date. If approved the balloted change will be effective as of September 25, 2020.

Attachment 1

Annex N

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Attachment 2



Oronite

Making Annex N (MTEP) Evergreen

Laura Birnbaumer

Automotive Engine Oil Product Qualification Program Manager

Lubricant Standards Remote Virtual Meeting

August 11, 2020

- Annex N addresses Multiple Test Evaluation Procedures. Besides a brief explanation of MTEP, it lists out in N-1 for PCMO and N-2 for HDMO, the tests, type of MTEP and how the individual parameters are to be treated.

Annex N

Multiple Test Evaluation Procedure

N.1 General

The Multiple Test Evaluation Procedure (MTEP) is any databased approach for evaluation of the quality and performance of a formulation where more than one test has been run. The applicable tests and parameter values to be averaged are specified in Table N-1 for PCMOs and N-2 for diesel engine oils and listed in ASTM D4485.

N.2 Passenger Car Motor Oils

For the API Certification Mark or for Service Category SN and/or SM and/or SL and/or SJ and/or SH where specifications do not include a defined MTEP for those tests listed in Table N-1, the criteria expressed in the ACC Code, Appendix F, must be followed.

N.3 Diesel Engine Oils

For API Service Categories CH-4, CI-4, CJ-4, **CK-4 and FA-4**, the limits of a specification have been expressed in terms of a defined MTEP technique. To determine the acceptability of a candidate oil formulation, the value of the parameters in each of the tests (appropriate to the respective specification) listed in Table N-2 must be treated in accordance with ASTM D4485.

API 1509 Annex N



Oronite

- GF-6 tests included in N-1 but “SP” not included in the descriptive paragraph.
- During review of the ACC Code of Practice, it was noted that lists of tests and their MTEP appeared in the ACC Code of Practice, ASTM D4485 and API 1509 and that two of those documents just reprinted what was in the first.
 - No specific Lubricants Group activity to update the MTEP for engine test parameters.
- It was suggested that, because ACC Technical Advisory Group develops a test’s MTEP, the list of tests, parameters and their MTEP appear in ACC Code of Practice Appendix F and the other two documents refer to that location.
 - Language in D4485 to achieve this is currently being balloted.

API 1509 Annex N



Oronite

- Move that 1509 Annex N be changed to the following:

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API 1509 Annex N Revised Wording



Oronite

Motion To Ballot: API 1509 Annex N be changed to the following:

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API 1509 Annex N Motion - Aug 20, 2020



Oronite

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Seconded by Bill O’Ryan, Lubrizol

Discussion of Motion: No Additional Discussion

Disapprove = 0

Abstain= 0

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Automotive Engine Oil Product Qualification Program Manager

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