

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

Oronite: Sequence IIIH backwards compatibility

On April 4, 2019 the Lubricants Standards Group (LSG) reviewed the Oronite: **Sequence IIIH backwards compatibility**. (Ballot Attachment)

The Oronite Sequence IIIH backwards compatibility presentation addressed two subjects:

1. Backwards compatibility is fundamental (Attachment 1, pages 2 and 7)
2. A Totally Hypothetical Example (Attachment 1, Pages 5 and 6)

The Oronite presentation included the Proposal given below. (Attachment 1, page 3)

Oronite Proposal

- Move to add as a new footnote to the API SJ and API SL Tables in Annex G of API 1509 by the Sequence IIIH option for these Service Categories **“Alternatively, Test Method D8111 (Sequence IIIH) at 90 hours, passing at the API SM level of performance, can be used to meet this requirement.”**

The LSG discussed the Oronite Proposal. A Motion was made: **Send Proposal on Slide 3 to Ballot**. (Attachment 1, page 4.)

The LSG Ballot Motion is given below.

Motion

Send Proposal on Slide 3 to Ballot

- Motion by: Laura Birnbaumer
- Second by: Matthew Ansari
 - Affirmative: 16
 - Negative: 0
 - Abstain: 0

Motion Passes

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 May 10, 2019. All Votes and/or Comments must be received by that date. If approved the balloted change will be effective as of April 4, 2019.

Attachment 1



Oronite

Sequence IIIH backwards compatibility

L. Birnbaumer
API Lubricants Group
Detroit, MI
April 4, 2019



Backwards compatibility is fundamental

- Backwards compatibility of API Service Categories is a core part of API's Engine Warranty Maintenance Service and is called out in API 16509 EOCLS 5.3.2 and 5.3.3.
- Through CLOG, Lubes Group has maintained previous API Service Categories by establishing comparable engine test limits.
- But it is whole Categories and not individual tests that are backwards compatible.
- While 70-hour Seq IIIH has been defined and balloted for qualifying against API SJ and SL, a full length test has no definition for these Service Categories even if it can offer higher performance expectations.
- This is an effort to also allow, if available, a full length passing Seq. IIIH to be used to support API SJ or SL.



Proposal

- Move to add as a new footnote to the API SJ and API SL Tables in Annex G of API 1509 by the Sequence IIIH option for these Service Categories **“Alternatively, Test Method D8111 (Sequence IIIH) at 90 hours, passing at the API SM level of performance, can be used to meet this requirement.”**



Motion

Send Proposal on Slide 3 to Ballot

- Motion by: Laura Birnbaumer
- Second by: Matthew Ansari

- Affirmative: 16
- Negative: 0
- Abstain: 0

Motion Passes



A Totally Hypothetical Example

- As an additive company you have a fully qualified API SP product.
- Your customer asks you to develop a cascade of your product and qualify older API Categories targeting API SM.
- You run a full length Seq. IIIH on a “down-treat” of your package and pass the API SM limits. But when you run your Seq. VH, you only pass at the API SJ limits.
- Without provisions of proposed footnote, you are forced to run a 70-hour Seq. IIIH to qualify the “down-treat” against API SJ.
- But the footnote helps to avoid that and lets the full length Seq. IIIH passing at API SM limit allow qualification of the “down-treat” as API SJ.



A Totally Hypothetical Example

- A qualification program targeting API SJ or API SL would have to run the 70 hour Seq. IIIH so it is a different scenario.



Backwards compatibility is fundamental

- It is whole Categories that are backwards compatible so are we losing something when we allow the Seq. IIIH to be used in this manner?
- 70-hour Seq IIIH has a Piston Skirt Varnish parameter that the full length Seq. IIIH does not have.
- Piston Varnish is a parameter for the Seq. VH for all active API Service Categories so we are not losing a parameter when we allow a full length Seq. IIIH passing at API SM limit to qualify API SJ or API SL.