

HDEOCP Volatility Task Force

20 September 2000

- **Proposed Questions to be Answered**
 - **Does volatility affect field performance? Two sets of data presented to date shows little effect of Noack volatility on oil consumption. Awaiting more data.**
 - **Does volatility affect engine test performance? Increasing additive metals indicates evaporation is a factor in John Deere JDQ 78A test. Two oils, (1) Noack = 12.5% and (2) GCD = 12 % oils, show little difference in CH-4 engine test performance.**
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- **Proposed Questions to be Answered**
 - **What is the volatility of current HDEOs?**
 - **15W-40 CH-4 (9.4 to 17.7) - Ave = 14.4 ± 2.0**
 - **10W-30 CH-4 (12.2 to 20.0) - Ave = 16.3 ± 2.6**
 - **How will base oil changes for SL/GF-3 affect volatility? Lower volatility base oils will be likely be available when GF-3 is introduced.**
 - **What is the appropriate North American HDEO volatility level? Unanswered. Why does ACEA use 13% Noack for E category?**
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➔ **Current Limits**

- **API**

- **SJ 10W-30 - Noack < 22% or D6417 < 17%**
 - **SJ 15W-40 - Noack < 20% or D6417 < 15%**
 - **SL all grades - Noack < 15% and D6417 < 10%**
 - **CH-4 10W-30 - Noack < 20% or D6417 < 17%**
 - **CH-4 15W-40 - Noack < 18% or D6417 < 15%**
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➔ Current Limits

- **ACEA (Noack only)**

- **A1-98 - < 15%**
 - **A3-98 - < 13%**
 - **A2-96 Issue 2 - 10W-X or lower < 15%; others < 13%**
 - **B1-98 - < 15%**
 - **B3-98 - < 13%**
 - **B2-98, B4-98 - 10W-X or lower < 15%; others < 13%**
 - **E all grades - < 13%**
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➔ Task Force Members - 9/20/00

- Ken Chao - John Deere**
 - Barry Deane - ExxonMobil**
 - Pat Fetterman - Infineum**
 - Bill Kleiser - Oronite**
 - Charlie Passut - Ethyl**
 - John Rosenbaum - Chevron**
 - Bill Runkle - Valvoline**
 - Ted Selby - Savant**
 - Greg Shank - Mack**
 - Cliff Venier - Pennzoil-Quaker State**
 - Shawn Whitacre - Cummins**
 - Lew Williams - Lubrizol**
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- ➔ **Request for Data on Heavy Duty Oils**
 - **Effects of Volatility on Engine Test Performance.**
 - **Effects of Volatility in the Field.**
 - **Likely Volatility Consequences of PC-09 additives compared to CH-4.**
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