

# **Update on SAE J300 Engine Oil Viscosity Classification Task Force**

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## **EOVC TF Membership and Meetings**

- Chairman Andy Jackson, ExxonMobil
- Vice-Chairman Bob Olree, GM Powertrain
- Current membership:
  - 9 Finished lubricant manufacturers and marketers
  - 5 Additive companies
  - 2 OEMs
  - 6 Other
- Increased OEM participation desired.
- Meet twice a year at the ASTM Summer and Winter meetings (Wednesdays, 1:00 to 5:00 pm).

## **Main activity at last EOVC TF meeting, June 22, 2005 in Pittsburgh**

- Addressed TC-1 Chairman Dewey Szemenyi's request to review role and scope of SAE J300
  - What is it? What should it be?
  - Who are its major customers/stakeholders?
  - Should it stay like it is or should it undergo a major transformation?
  - If SAE J300 should change, in what way?

# Summary – EOVC TF Discussion on Role and Scope of SAE J300

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## What is it? What should it be?

- Current scope statement: “This SAE Standard defines the limits for a classification of engine lubricating oils in rheological terms only. Other oil characteristics are not considered or included.”
- Significant discussion on the scope. Scope considered broad enough to allow for improvements.

## Who are its major customers/stakeholders?

- List developed: OEMs (incl. Passenger Vehicles, Heavy Duty, Railroad, Aviation, Small Engines), Consumers, Government agencies, Technology ministries of governments around the world, Industry committees with viscosity grade read-across guidelines, Oil companies, Additive companies, Researchers on advanced lubricants, Service counters, mechanics, “experts”, API ....

## Should it stay like it is or should it undergo a major transformation?

- General feeling that whilst change may be desirable in SAE J300, the prospect of a major transformation is daunting in light of the number of customers and stakeholders identified.
- We need to be mindful of existing needs and not try to overly perturb the system.

## If SAE J300 should change, in what way?

- General consensus that SAE J300 may need to be modified to meet future needs. Several suggestions were made for areas to be considered.
- Two presentations on SAE J300 at the Open Forum on GF-5 Fuel Economy were considered

## **Recommendation from June 22, 2005 meeting.**

- Hold an Open Forum on the Future of SAE J300 at the Powertrain and Fluid Systems Conference, Oct 25, San Antonio
- EOVC will determine work areas, prioritize and form sub-teams to investigate

## Open Forum Presentations, April 12, 2005, SAE World Congress, Detroit

### **A New Look at Viscosity Classification**

Ted Selby, *Savant, Inc.* and Mike McMillan, *GM Research*

### **Extending SAE J300 to Include Engine Oils with High Fuel Economy**

Andy Jackson, Charles Baker, Chris May and Doug Deckman - *ExxonMobil*

## Open Forum Presentations, October 25, Powertrain and FluidSystems Conference, San Antonio

### **Brief History of SAE J300**

Chris May, *Imperial Oil*

### **What's Wrong with SAE J300**

Bob Olree, *General Motors Powertrain*

### **The EMA Position on SAE J300**

Greg Shank, *Volvo Powertrain* and Dave Stehouwer, *Stehouwer Tech. Services*

### **Effect of New SAE J300 CCS and MRV Limits on Fuel Economy**

Mark Devlin, *Afton*

### **SAE J300 Today and in the Future**

Larry Smith, *Infineum*

### **SAE J300 Engine Oil Viscosity Classification – The Oronite Position**

Kevin Carabell, *Chevron Oronite*

### **The Impact of SAE J300 on Base Stock Properties**

Patrick Mosier, *Lubrizol*

## AGENDA

1. Welcome and Introductions
  2. Appointment of Secretary
  3. Approve minutes of last meeting (June 22, 2005)
  4. Review of membership.
    - 4.1. OEM Representation
    - 4.2. International representation
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5. **Discuss outcome of SAE Open Forum “Open Forum on the Future of the SAE J300 Engine Oil Viscosity Classification System.” Identify, regroup and prioritize topics identified;**
    - 5.1. **Minor Revision, Major Revision or Whole New System?**
    - 5.2. **New Viscosity Grades - SAE 20 and Lower**
    - 5.3. **W-Grade Issues**
    - 5.4. **SAE J300 and Heavy Duty Oils**
    - 5.5. **Should SAE J300 Include Rheological Effects on Fuel Economy?**
    - 5.6. **Accommodating High VI Basestocks**
  6. **Select work topics to address in 2006 and identify sub-teams to investigate and develop recommendations**
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7. Old Business
  8. New Business