

ACEA

E categories

Short term changes (“asap”)

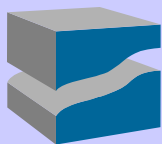
- **Low temperature pumpability**
 - ✓ **Winter of 2008/9: field failures caused by oil starvation arising from poor pumpability**
 - ✓ **Biodiesel believed to be an important factor**
 - ✓ **Urgently needed in all E-categories**
 - ✓ **Limits to be defined after CEC work completed**
 - ✓ **CEC TDG-L-105**



E categories

Short term changes (“asap”)

- **Biofuel compatibility**
 - ✓ **Based on OM646 engine HW and VW TDI test cycle**
 - ✓ **Parameters**
 - ❑ **Engine sludge**
 - ❑ **Piston deposits**
 - ❑ **Oil degradation**
 - ❑ **Bearing corrosion (?)**
 - ✓ **Needed in all E-categories**
 - ✓ **Outcome of the CEC group will define how it will be applied**
 - ✓ **TDG-L-104**

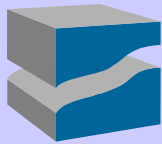


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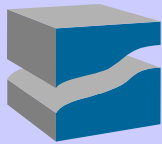
- **Severity change? If yes \Rightarrow new categories**
 - ✓ **E4 \rightarrow E8**
 - ✓ **E6 \rightarrow E10**
 - ✓ **E7 \rightarrow E11**
 - ✓ **E9 \rightarrow E13**



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E categories Outlook 2012

- **Fuel economy**
 - ✓ No specific test requirements foreseen
 - ✓ CoP possibly based on WHTC discussed
 - ✓ CO₂ emission legislation will guide future test development
 - ✓ New HTHS limits (→ SAE J300) beyond 2012
- **Oxidation criteria**
 - ✓ Big difference seen between E6 oils in terms of long drain capability
 - ✓ Longer tests? Novel used oil parameters?
 - ✓ Relevant for all categories!!



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E categories Outlook 2012

- **Oil degradation due to biofuel dilution is a big concern**
- **Test work planned**
 - ✓ GFC and/or Daimler oxidation test with biofuel (SME) addition
 - ✓ HT-CBT with biofuel (SME) addition
 - ✓ Possible joint ACEA-EMA?
- **TC deposits**
 - ✓ New "poor reference" may be available
 - ✓ Re-open CEC group?