PC-10 Chemical Limits Task Force

Status

June 17, 2003

PC-10 Chemical Limits Task Force
Charter

Our task is to make a recommendation to the ASTM HDEOCP on PC-10 chemical limits for lubricant sulfated ash, phosphorus and sulfur that best balance three parameters, engine durability, exhaust after-treatment system durability and oil drain interval. As compromises and trade-offs emerge in the decision process, our priority among the three parameters is in the order listed, i.e. our first concern is to engine durability, then to exhaust after-treatment durability, then to drain interval. Our intent is to develop chemical limits which:

- Apply broadly to all engines
- Allow backward compatibility of PC-10 lubricants
- Are based on best judgment from analysis of data supplied by Industry
- Will focus on the needs of 2007 emissions controlled engines

PC-10 Chemical Limits Task Force Charter

We will accomplish our task by a process of soliciting, then analyzing data from the Industry related to:

- Engine durability at lower constitutional amounts of sulfated ash, phosphorus and sulfur
- Exhaust system durability as a function of constitutional amounts of sulfated ash, phosphorus and sulfur
- Engine durability as a function of oil drain interval at lower constitutional amounts of sulfated ash, phosphorus and sulfur

PC-10 Chemical Limits Task Force Charter

We will not fund or sponsor any new data development, but will rely fully on the data provided by Industry, with Industry defined as the catalyst manufacturers, the engine builders, the lubricant marketers, the additive industry, the test labs and industry consortia.

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The key timing driver for our work product is to serve as input to the design of the reference oils that will be used in the PC-10 engine test matrix. Our recommendation needs to be in place about 3 months ahead of the start of the matrix, which is currently scheduled for late 1Q04. This dictates a completion date of December, 2003 for our work. This will be our target, which we will adjust if the PC-10 test matrix timing slips.

Chemical Limits Task Force
Key Activities and Dates

Activity	Timing
Charter	Complete
Content of Data Request Developed	June, 2003
Data Request Sent Out	June 30, then periodic reminders
Data Submission Deadline	September 23
Data Analysis	October, 2003
Clarifications and Interactions with Data Providers, as Necessary	November, 2003
Consensus on Chemical Limits within Task Force	November, 2003
Recommendation to HDEOCP	December, 2003