

PC-9 Matrix Design Task Force

PC-9 Precision/BOI Matrix Update

Presented to
Heavy Duty Engine Oil Classification Panel
Chicago, IL
July 11, 2001

Caterpillar 1R Matrix Testing

- **PC-9 MDTF 1R Proposal to HDEOCP**
 - Five Labs – Nine Test Stands – 18 Tests (Two Tests/Stand)
 - Three Test Oils:
 - 9 Runs PC-9M, 7 Runs PC-9A, and 2 Runs PC-9D
 - Each Stand will see PC-9A or PC-9M (7 of 9 stands see both)
 - Oil PC-9D should be run as the Second Test in One of the Two Original 1Q Stands at each Independent Lab as a Substitute for Oil PC-9A in that Stand

Caterpillar 1R Matrix Test Oil Selection

Code	Technology	Base Oil	Featured Oil for the Test Listed
PC-9A	X	1	T-10
PC-9D	Y	1	(M11/EGR = PC-9E)
PC-9M	W	4	1R

Caterpillar 1R Matrix Testing

PC-9 Matrix Test Plan								
Caterpillar 1R								
Lab 1			Lab 2	Lab 3			Lab 4	Lab 5
Stand 1	Stand 2	Stand 8	Stand 3	Stand 4	Stand 5	Stand 9	Stand 6	Stand 7
PC-9A	PC-9M	PC-9A	PC-9M	PC-9A	PC-9M	PC-9A	PC-9M	PC-9A
PC-9M	PC-9D	PC-9M	PC-9A	PC-9M	PC-9D	PC-9M	PC-9A	PC-9M

Caterpillar 1R Matrix Testing

- **1R Matrix Status**
 - **Nine 1R Tests in Progress**
First Round Started Mid June
 - **Estimated Completion of First Round:**
July 20, 2001
 - **Estimated Completion Of Test Plan:**
August 21, 2001
 - **Estimated Completion of Data Analysis:**
August 30, 2001