

## Caterpillar C13 Test Criteria

### 500 hour – Steady State Test Cycle

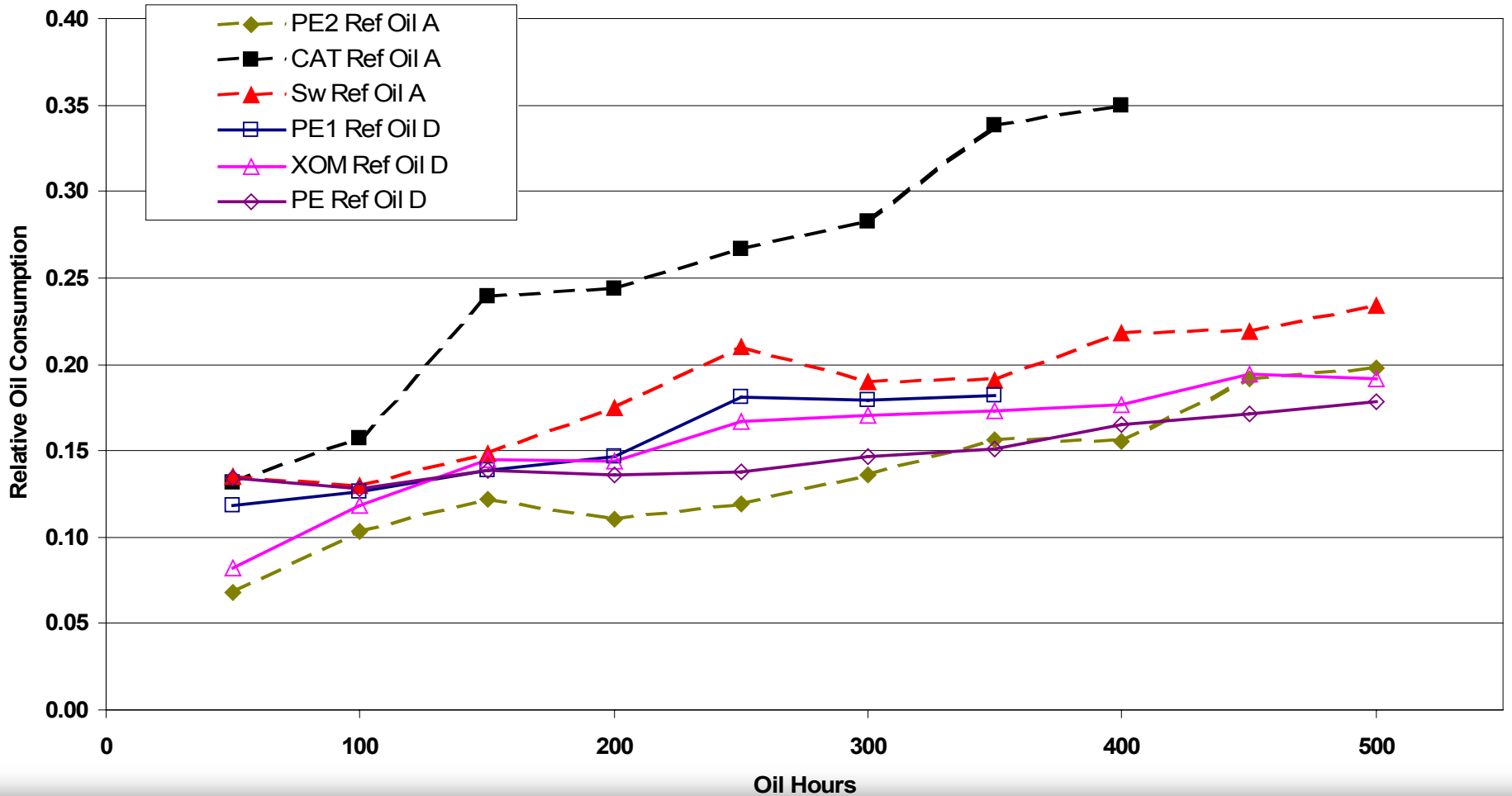
#### Test Pass/Fail Criteria:

- No Loss of Oil Consumption Control  
<20% or lower? (based on average of EOT vs SOT)
- Last 150 hours stable Oil Consumption
- No stuck rings/Loss of ring side clearance



# Caterpillar C13 Test Update

## C13 Raw Oil Consumption

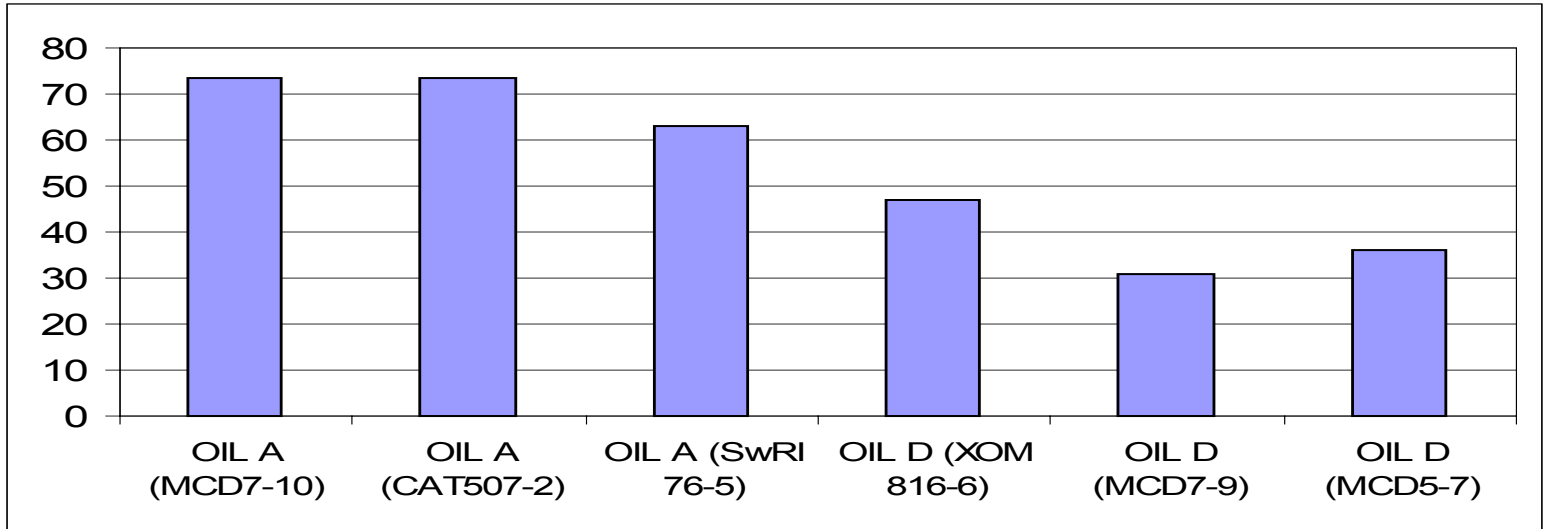


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# Caterpillar C13 Test Update

January 12, 2005



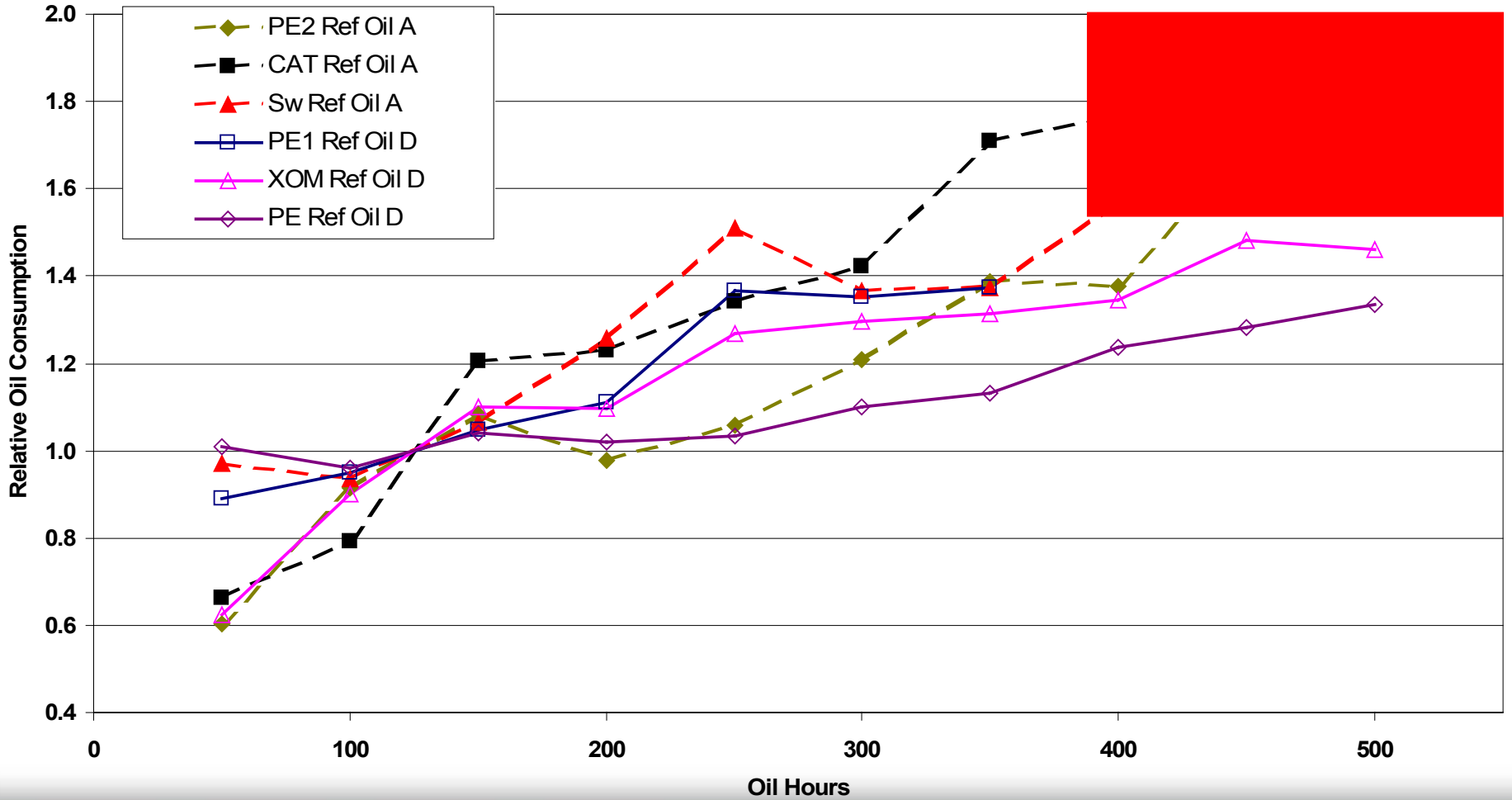
<u>Oil</u>	<u>Test Hours</u>	<u>Oil Cons Inc</u>
Oil A (MCD7-10)	500	73.3
Oil A (CAT507-2)	400	73.6
Oil A (Sw76-5)	500	62.9
Oil D (XOM816-6)	500	47.1
Oil D (MCD7-9)	500	30.7
Oil D (MCD5-7)	350	36.2

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# Caterpillar C13 Mini-matrix Test Status

## C13 Normalized Oil Consumption



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## No CCV, ULSDF Tests, Second Ring

<u>Oil</u>	<u>RSC # (max loss)</u>	<u>TLC (Ave)</u>
Oil A (MCD7-10)	0 (0.02)	31
Oil A (CAT507-2)		
Oil A (Sw76-5)	3 (0.06)	36
Oil D (XOM816-6)	0 (0.04)	20
Oil D (MCD7-9)	1 (0.06)	24
Oil D (MCD5-7)		

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## Cat Single vs Multi- Cylinder

- 1P and C13 needed for PC-10
- 1K/1N supportable but not at expense of 1P
- 1P covers 1K/1N due to greater severity (Afton, Oronite data confirm this)



# Cat Single vs Multi- Cylinder Avg. Temperatures (°C)

	TL	TG	2L	2G	3L	3G	Oil
1N	365	310	260	230	150	130	107
1P	283	231	171	154	142	148	130
C13	237	184	148	132	127	124	105

