



# OIL REPORT

LAB NUMBER: D04920  
 REPORT DATE: 5/10/2007  
 CODE: 20/284

UNIT ID: GMCMH  
 CLIENT ID: 22119  
 PAYMENT: CC: MC

<b>UNIT</b>	EQUIP. MAKE/MODEL: Oldsmobile 403 CID V-8	OIL TYPE & GRADE: Mobil 1 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO: 77 Birchaven	

<b>CLIENT</b>	ROGER BLACK	PHONE: (615) 446-3640
	509 BEECH CT	FAX:
	BURNS, TN 37029	ALT PHONE:
		EMAIL: r1black@earthlink.net

**COMMENTS** ROGER: Wear found anti-freeze and excess wear in the first sample form this engine. Unless this engine is raced, these wear levels are all high enough to show a mechanical problem developing. Aluminum, chrome, and iron and mainly form pistons, rings, and cylinders, while copper, lead, and tin are bearing metals. Some of this lead could be form leaded fuel. Anti-freeze at this level typically isn't high enough to cause excess wear, though it is something to keep a close eye on. Suggest having a close look at this engine. If it's running well check back in 500 miles.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	3,000	<b>UNIT / LOCATION AVERAGES</b>					<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	110,000						
	Sample Date	04/02/07						
	Make Up Oil Added							
ALUMINUM	23	18					8	
CHROMIUM	10	7					2	
IRON	273	190					47	
COPPER	37	27					14	
LEAD	151	105					11	
TIN	15	12					1	
MOLYBDENUM	130	126					40	
NICKEL	2	2					1	
MANGANESE	5	4					1	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	17	13					1	
BORON	101	132					43	
SILICON	33	25					15	
SODIUM	112	82					29	
CALCIUM	4265	4018					1452	
MAGNESIUM	98	67					449	
PHOSPHORUS	1092	1049					866	
ZINC	1420	1340					1031	
BARIUM	0	0					0	

Values  
Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	74.0	59-68				
	cSt Viscosity @ 100°C	13.99	9.9-12.7				
	Flashpoint in °F	425	>365				
	Fuel %	<0.5	<2.0				
	Antifreeze %	0.22	0				
	Water %	0.0	0.0				
	Insolubles %	0.5	<0.6				
	TBN						
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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