



OIL REPORT

LAB NUMBER:
REPORT DATE: 10/14/2010
CODE:

UNIT ID: 08 SUBURBAN
CLIENT ID:
PAYMENT:

UNIT	MAKE/MODEL: GM 5.3L 327 CI V-8	OIL TYPE & GRADE: Mobil 1 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 6,013 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS	A mild increase in wear showed up in this sample from your Suburban. This type of engine is known for antifreeze problems, though we don't think that's the reason for the wear in your engine. Antifreeze shows up as potassium and sodium. Copper and lead come from the bearings, and they certainly do appear to be wearing poorly, though we're not sure why. Upper-end wear is still okay and no fuel or other contaminants were present. This engine isn't wearing all that well, and we think shorter oil changes would help keep the oil from getting so abrasive. Try 3K miles.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	6,013	UNIT / LOCATION AVERAGES	4,703	5,673				UNIVERSAL AVERAGES
	MI/HR on Unit	34,296		28,283	23,580				
	Sample Date	10/02/10		05/01/10	12/06/09				
	Make Up Oil Added	0 qts		0 qts	0 qts				
	ALUMINUM	4	3	5	4				3
	CHROMIUM	1	1	1	1				1
	IRON	23	15	22	32				19
	COPPER	97	27	86	112				31
	LEAD	37	7	17	25				9
	TIN	0	1	0	2				1
	MOLYBDENUM	97	78	114	106				68
	NICKEL	3	2	2	4				1
	MANGANESE	2	0	1	2				2
	SILVER	0	0	0	0				0
	TITANIUM	0	0	0	0				0
	POTASSIUM	3	24	3	3				3
	BORON	44	66	54	46				51
	SILICON	10	9	10	11				12
	SODIUM	16	25	15	5				25
	CALCIUM	2403	2425	2250	2314				2228
	MAGNESIUM	12	14	12	14				125
	PHOSPHORUS	622	644	652	641				685
	ZINC	648	719	779	744				842
	BARIUM	0	0	0	0				0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	57.9	55-62	58.3	59.1			
	cSt Viscosity @ 100°C	9.61	8.8-11.1	9.74	9.96			
	Flashpoint in °F	380	>365	385	410			
	Fuel %	<0.5	<2.0	<0.5	<0.5			
	Antifreeze %	0.0	0.0	0.0	0.0			
	Water %	0.0	0.0	0.0	0.0			
	Insolubles %	0.2	<0.6	0.3	0.3			
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com