



OIL REPORT

LAB NUMBER: F37892

UNIT ID: 04 GRD CHEROKEE

REPORT DATE: 1/18/2013

CLIENT ID: 60958

CODE: 63/501

PAYMENT: CC: Discover

UNIT	MAKE/MODEL: Jeep 4.0L Inline 6 cyl	OIL TYPE & GRADE: Mobil 1 High Mileage 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,200 Miles
	ADDITIONAL INFO:	

CLIENT	MICHAEL GDOVIC	PHONE: (757) 871-5260
	808 CEDARWOOD CT	FAX:
	CHESAPEAKE, VA 23322	ALT PHONE:
		EMAIL: michaelgdovic@gmail.com

COMMENTS	MICHAEL: Thanks for your detailed note. Aluminum and iron read just a little higher than average in this sample. Aluminum shows piston wear and iron is from steel parts. Averages are based on a similar interval to the one you used, so we can't blame a longer oil run or something like that on the extra metal. It may well be a result of the short commutes, though we should know more about that as trends build. The oil was in good shape physically, and the TBN read 3.5, showing plenty of active additive left. Not a perfect report, but not really a bad one either.
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,200	UNIT / LOCATION AVERAGES							UNIVERSAL AVERAGES
	MI/HR on Unit	111,600								
	Sample Date	01/16/13								
	Make Up Oil Added	0 qts								
	ALUMINUM	7		7						3
	CHROMIUM	1		1						1
	IRON	49		49						28
	COPPER	6		6						4
	LEAD	0		0						3
	TIN	0		0						1
	MOLYBDENUM	83		83						67
	NICKEL	2		2						1
	MANGANESE	1		1						1
	SILVER	0		0						0
	TITANIUM	0		0						0
	POTASSIUM	3		3						3
	BORON	49		49						45
	SILICON	10		10						11
	SODIUM	6		6						35
	CALCIUM	961		961						2106
	MAGNESIUM	681		681						121
	PHOSPHORUS	810		810						722
	ZINC	989		989						867
	BARIUM	0		0						0

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°F	64.2	59-68						
	cSt Viscosity @ 100°C	11.38	9.9-12.7						
	Flashpoint in °F	425	>375						
	Fuel %	<0.5	<2.0						
	Antifreeze %	0.0	0.0						
	Water %	0.0	<0.1						
	Insolubles %	0.4	<0.6						
	TBN	3.5	>1.0						
	TAN								
	ISO Code								

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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