



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
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	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.

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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