



# OIL REPORT

LAB NUMBER: J10201  
 REPORT DATE: 2/10/2017  
 CODE: 44/685

UNIT ID: 89 CHEROKEE  
 CLIENT ID: 105401  
 PAYMENT: CC: Visa

<b>UNIT</b>	MAKE/MODEL: Jeep 4.0L Inline 6 cyl	OIL TYPE & GRADE: Shell Rotella T6 5W/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,354 Miles
	ADDITIONAL INFO:	

<b>CLIENT</b>	ROBERT ENGLEHEART 315 WEST SPRING LANE LEMOORE, CA 93245	PHONE: (559) 816-1470 FAX: ALT PHONE: EMAIL: enggleheart@sbcglobal.net
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**COMMENTS** ROBERT: With 4 quarts of added oil, wear metals in this sample are probably diluted at least a little, so they may be higher than what we're seeing. Still, these results don't show any obvious trouble with mechanical parts. Wear metals are fine next to universal averages, which show typical wear after about 4,100 miles of oil use. Lead is close to getting a mark, showing a little more bearing wear than average, but not a problematic amount. No significant coolant showed up, and the trace of fuel is harmless. At 6.5, the TBN was strong. Try 5K miles and check back for trends.

	MI/HR on Oil	4,354	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	50,529						
	Sample Date	1/31/2017						
	Make Up Oil Added	4 qts						
<b>ELEMENTS IN PARTS PER MILLION</b>	ALUMINUM	4	4					4
	CHROMIUM	1	1					1
	IRON	17	17					26
	COPPER	2	2					4
	LEAD	4	4					2
	TIN	3	3					1
	MOLYBDENUM	77	77					70
	NICKEL	0	0					1
	MANGANESE	0	0					1
	SILVER	0	0					0
	TITANIUM	0	0					0
	POTASSIUM	7	7					3
	BORON	26	26					47
	SILICON	7	7					13
	SODIUM	56	56					48
	CALCIUM	983	983					2010
	MAGNESIUM	1059	1059					154
	PHOSPHORUS	1028	1028					735
ZINC	1232	1232					878	
BARIUM	0	0					0	

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	70.7	65-78				
	cSt Viscosity @ 100°C	13.14	11.6-15.3				
	Flashpoint in °F	375	>375				
	Fuel %	TR	<2.0				
	Antifreeze %	0.0	0.0				
	Water %	0.0	0.0				
	Insolubles %	0.2	<0.6				
	TBN	6.5	>1.0				
	TAN						
	ISO Code						

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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