



OIL REPORT

LAB NUMBER: E56229
 REPORT DATE: 5/19/2011
 CODE: 44/75

UNIT ID: 97 JEEP
 CLIENT ID:
 PAYMENT: Prepaid

UNIT	MAKE/MODEL: Jeep 2.5L 4-cyl	OIL TYPE & GRADE: Pennzoil 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 3,000 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

COMMENTS JON: Wear metals were on the high side in this sample from the 2.5L in your Jeep. Aluminum shows piston wear and iron is from steel parts like cylinders and rotating shafts. Lead shows bearing wear. Sodium can show coolant, but sodium can also be residual additive from a previous oil. Fuel dilution of 1.8% lowered the viscosity, but neither is a problem at this point. Universal averages show typical wear levels for this type of engine after about 3,500 miles on the oil. We're not sure if the Auto RX is rinsing this stuff out or not, but we'll keep an eye on things next time.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	3,000	UNIT / LOCATION AVERAGES					UNIVERSAL AVERAGES
	MI/HR on Unit	153,000						
	Sample Date	05/08/11						
	Make Up Oil Added	2 qts						
ALUMINUM	7	7					4	
CHROMIUM	2	2					1	
IRON	41	41					25	
COPPER	4	4					5	
LEAD	5	5					2	
TIN	5	5					1	
MOLYBDENUM	174	174					58	
NICKEL	1	1					1	
MANGANESE	0	0					0	
SILVER	0	0					0	
TITANIUM	0	0					0	
POTASSIUM	0	0					3	
BORON	37	37					15	
SILICON	12	12					11	
SODIUM	67	67					13	
CALCIUM	1830	1830					2395	
MAGNESIUM	9	9					22	
PHOSPHORUS	640	640					801	
ZINC	797	727					970	
BARIUM	0	0					15	

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	53.4	55-62				
	cSt Viscosity @ 100°C	8.29	8.8-11.1				
	Flashpoint in °F	330	>365				
	Fuel %	1.8	<2.0				
	Antifreeze %	?	0.0				
	Water %	0.0	<0.1				
	Insolubles %	0.4	<0.7				
	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