



OIL REPORT

LAB NUMBER: L00275
 REPORT DATE: 3/13/2019
 CODE: 20/685

UNIT ID: 95 XJ
 CLIENT ID: 95673
 PAYMENT: CC: Visa

UNIT	MAKE/MODEL: Jeep 4.0L Inline 6 cyl	OIL TYPE & GRADE: Mobil Delvac 1300 Super 15w/40
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO: Cherokee	

CLIENT	JOSHUA DOWNS	PHONE: (940) 452-1721
	1990 COUNTY RD 1032 GREENVILLE, TX 75401	FAX: ALT PHONE: EMAIL: jeepinbanditriders@gmail.com, joshua.d.downs@gmail.com

COMMENTS JOSHUA: Coolant, silicon, and lead are the main finds in this Jeep. High amounts of potassium and sodium indicate coolant contamination. Silicon can come from sealers if repair work was done recently, though it might be abrasive dirt -- check air induction for cracks/leaks. Lead and tin are high compared to universal averages (based on ~4,000 miles of oil use) and show some extra bearing wear. Nothing you can't live with for a while, but keeping oil changes short (~2,500 miles) will help flush contamination until fixes can be made. TBN was fine at 4.4, since 1.0 is low.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Unit	187,600							
	Sample Date	2/27/2019							
	Make Up Oil Added	1.25 qts							
	ALUMINUM	7							4
	CHROMIUM	2							1
	IRON	37							25
	COPPER	7							4
	LEAD	15							2
	TIN	4							1
	MOLYBDENUM	48							71
	NICKEL	1							1
	MANGANESE	2							1
	SILVER	0							0
	TITANIUM	0							1
	POTASSIUM	154							4
	BORON	18							49
	SILICON	95							14
	SODIUM	111							51
	CALCIUM	1610							1946
	MAGNESIUM	439							171
	PHOSPHORUS	659							738
	ZINC	889							871
	BARIUM	0							0

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	71.4	68-78					
	cSt Viscosity @ 100°C	13.32	12.4-15.3					
	Flashpoint in °F	400	>390					
	Fuel %	<0.5	<2.0					
	Antifreeze %	0.22	0.0					
	Water %	0.0	0.0					
	Insolubles %	0.3	<0.6					
	TBN	4.4	>1.0					
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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