BLACKSTONF	
(LABORATORIES)	

EVAN SKWARA

DURANGO, CO 81301

243 E 9TH ST

OIL REPORT LAB NUMBER: K94654 REPORT DATE: 2/18/2019 CODE: 20/32 UNIT ID: 01 CHEROKEE CLIENT ID: 137884 PAYMENT: CC: MC

IINIT

MAKE/MODEL: Jeep 4.0L Inline 6 cyl FUEL TYPE: Gasoline (Unleaded) ADDITIONAL INFO: OIL TYPE & GRADE: 10W/3 OIL USE INTERVAL: 3,000

10W/30 3,000 Miles

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COMMENTS

CLIENT

EVAN: Iron and silicon stood out in the first sample from your Jeep. Iron is coming from steel parts such as cylinders and shafts. Any recent work? If so, the high iron could mainly be wear-in with silicon from a harmless sealer. Otherwise, silicon could be dirt causing iron to go up. Check for intake leaks to be safe and make sure the air filter is properly seated. If air filtration looks good, then we'd only suggest a follow up in 3,000 miles to have a look at trends. Averages show typical results for these 4.0L engines after ~4,000 miles of oil use. No fuel or coolant found.

	MI/HR on Oil	3,000				
	MI/HR on Unit	196,000	AVERAGES			UNIVERSAL
	Sample Date	2/4/2019				AVERAGES
	Make Up Oil Added	6 qts				
NC	ALUMINUM	7	7			4
MILLION	CHROMIUM	1	1			1
	IRON	51	51			25
	COPPER	4	4			4
ER	LEAD	1	1			2
٩	TIN	0	0			1
TS	MOLYBDENUM	58	58			71
Ř	NICKEL	1	1			1
PA	MANGANESE	1	1			1
Z	SILVER	0	0			0
	TITANIUM	2	2			1
Ê	POTASSIUM	7	7			4
Ш	BORON	58	58			48
ELEMENTS	SILICON	89	89			14
	SODIUM	23	23			51
	CALCIUM	1840	1840			1949
	MAGNESIUM	134	134			171
	PHOSPHORUS	824	824			738
	ZINC	906	906			872
	BARIUM	0	0			0
			Values			

Values Should Be*

Should Be*								
	SUS Viscosity @ 210°F	58.9	58-65					
	cSt Viscosity @ 100°C	9.91	9.7-11.9					
S	Flashpoint in °F	400	>375					
ΞL	Fuel %	<0.5	<2.0					
R	Antifreeze %	0.0	0.0					
РП	Water %	0.0	0.0					
PRO	Insolubles %	0.2	<0.6					
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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