



OIL REPORT

LAB NUMBER: Q69869
 REPORT DATE: 2/3/2023
 CODE: 20/88

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

UNIT	MAKE/MODEL: Jeep 4.0L Inline 6 cyl	OIL TYPE & GRADE: Motorcraft 10W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 5,000 Miles
	ADDITIONAL INFO: Jeep, XJ, 4x4	

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

COMMENTS
 JOSH: Thanks for the note. Now that you've fixed the loose hose in the vent system, silicon is back to normal. However, iron, copper, and lead are still higher than we were seeing around this time last year. Copper and lead have decreased, which is good news for bronze parts like bushings and bearings, and aluminum (from pistons) is looking better, too. However, steel wear could still be a concern given the iron level. Monitor for unusual noise or other issues in operation, and check back in 3,000 miles to keep a closer eye on steel wear. Fuel dilution was okay at only 0.5%.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	5,000	UNIT / LOCATION AVERAGES	5,000	5,000	5,000	5,000	5,000	UNIVERSAL AVERAGES	
	MI/HR on Unit	257,400			247,290	242,512	237,422	232,491		
	Sample Date	1/19/2023			9/26/2022	7/23/2022	3/22/2022	10/30/2021		6/29/2021
	Make Up Oil Added	0.50 qts			0.5 qts	0.5 qts	1 qt	0.5 qts		0.5 qts
ALUMINUM	5	4	10	3	3	4	4	4		
CHROMIUM	1	1	2	1	1	0	1	1		
IRON	86	19	87	20	15	12	20	24		
COPPER	9	4	12	4	3	3	3	4		
LEAD	5	5	11	6	3	3	4	2		
TIN	1	1	1	1	1	0	0	1		
MOLYBDENUM	19	18	63	51	11	3	11	73		
NICKEL	1	1	0	1	0	0	1	1		
MANGANESE	1	0	1	0	0	0	0	1		
SILVER	0	0	0	0	0	0	0	0		
TITANIUM	0	0	0	0	0	0	0	1		
POTASSIUM	4	9	6	5	4	5	9	4		
BORON	14	5	7	4	4	3	7	52		
SILICON	15	15	33	15	19	12	14	15		
SODIUM	13	18	14	12	13	9	17	43		
CALCIUM	1453	2031	1293	1265	2068	2163	2298	1760		
MAGNESIUM	759	217	876	805	152	19	25	273		
PHOSPHORUS	1064	893	961	873	877	846	884	734		
ZINC	1186	1063	1164	1061	1008	980	1063	858		
BARIUM	0	0	0	0	0	0	0	0		

Values Should Be*

PROPERTIES	SUS Viscosity @ 210°F	60.8	59-69	61.9	59.0	60.0	60.5	59.9
	cSt Viscosity @ 100°C	10.45	9.9-12.9	10.76	9.92	10.22	10.37	10.20
	Flashpoint in °F	375	>385	385	395	410	400	395
	Fuel %	0.5	<2.0	TR	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.2	0.2	0.2	0.3
	TBN							
	TAN							
	ISO Code							

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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