



# OIL REPORT

LAB NUMBER: Q41956      UNIT ID: 95 CHEROKEE  
 REPORT DATE: 11/16/2022      CLIENT ID: 95673  
 CODE: 20/88      PAYMENT: CC: Visa

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

<b>CLIENT</b>	JOSHUA DOWNS	PHONE: (940) 452-1721
	1990 COUNTY RD 1032	FAX:
	GREENVILLE, TX 75401	ALT PHONE:
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**COMMENTS** JOSH: Was this engine overhauled or rebuilt since July 23rd? If so, the extra metal and silicon in this sample is probably from break-in. If not, the engine may be developing a problem. Aluminum is from pistons, iron - steel parts like cylinders and shafts, copper - brass/bronze parts like bushings, and lead - bearings; these metals could show excess wear. Silicon might be dirt that contributed to wear, so check for air intake leaks. Monitor for loss of oil pressure, unusual noise, or increasing oil use. Check back after a shorter oil run, maybe 3,000 miles. A trace of fuel is usually okay.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	5,000	<b>UNIT / LOCATION AVERAGES</b>	5,000	5,000	5,000	5,000	5,000	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit			247,290	242,512	237,422	232,491	227,424	
	Sample Date	9/26/2022		7/23/2022	3/22/2022	10/30/2021	6/29/2021	3/15/2021	
	Make Up Oil Added	0.5 qts		0.5 qts	1 qt	0.5 qts	0.5 qts	0.5 qts	
ALUMINUM	10	4	3	3	4	4	4	4	4
CHROMIUM	2	1	1	1	0	1	1	1	1
IRON	87	19	20	15	12	20	24	24	24
COPPER	12	4	4	3	3	3	4	4	4
LEAD	11	5	6	3	3	4	5	2	2
TIN	1	1	1	1	0	0	1	1	1
MOLYBDENUM	63	18	51	11	3	11	4	72	72
NICKEL	0	1	1	0	0	1	1	1	1
MANGANESE	1	0	0	0	0	0	1	1	1
SILVER	0	0	0	0	0	0	0	0	0
TITANIUM	0	0	0	0	0	0	0	1	1
POTASSIUM	6	9	5	4	5	9	14	4	4
BORON	7	5	4	4	3	7	6	52	52
SILICON	33	15	15	19	12	14	14	15	15
SODIUM	14	18	12	13	9	17	22	44	44
CALCIUM	1293	2031	1265	2068	2163	2298	2394	1771	1771
MAGNESIUM	876	217	805	152	19	25	34	268	268
PHOSPHORUS	961	893	873	877	846	884	920	735	735
ZINC	1164	1063	1061	1008	980	1063	1137	859	859
BARIUM	0	0	0	0	0	0	0	0	0

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	61.9	58-65	59.0	60.0	60.5	59.9	62.4
	cSt Viscosity @ 100°C	10.76	9.7-11.9	9.92	10.22	10.37	10.20	10.90
	Flashpoint in °F	385	>385	395	410	400	395	410
	Fuel %	TR	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
	Antifreeze %	0.0	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	0.3	0.2
	TBN							
	TAN							
	ISO Code							

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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