

## OIL REPORT

LAB NUMBER: R58276 **REPORT DATE:** 9/20/2023

OIL TYPE & GRADE:

**CODE**: 20/88

UNIT ID: 95 CHEROKEE XJ

**CLIENT ID: 95673** PAYMENT: CC: Visa

Shell Rotella T4 10W/30

CLIENT

MAKE/MODEL: Jeep 4.0L Inline 6 cyl

OIL USE INTERVAL: 5,000 Miles

**FUEL TYPE:** Gasoline (Unleaded)

ADDITIONAL INFO:

**JOSHUA DOWNS** PHONE: (940) 452-1721

1990 COUNTY RD 1032 FAX:

GREENVILLE, TX 75401 ALT PHONE:

EMAIL: joshua.d.downs@gmail.com, jeepinbanditrider@gmail.com

JOSH: Nice report. Iron (cylinders, shafts), copper and lead (brass/bronze parts such as bushings and bearings) are in much better standing now. Each level fits nicely within the typical range, so hopefully metals are stable from here. There was another decrease in silicon, which speaks to effective air filtration, and the flashpoint is high enough to rule out any measurable fuel. No new contamination, such as coolant, showed up in these results. We like 5,000-mile intervals for now. Just check back to monitor wear trends.

	MI/HR on Oil	5,000		5,000	5,000	5,000	5,000	5,000	UNIVERSAL AVERAGES
	MI/HR on Unit	267,258	UNIT / LOCATION AVERAGES	257,400		247,290	242,512	237,422	
	Sample Date	8/17/2023		1/19/2023	9/26/2022	7/23/2022	3/22/2022	10/30/2021	
	Make Up Oil Added	0.5 qts		0.50 qts	0.5 qts	0.5 qts	1 qt	0.5 qts	
MILLION	ALUMINUM	3	4	5	10	3	3	4	4
	CHROMIUM	1	1	1	2	1	1	0	1
	IRON	21	20	86	87	20	15	12	24
	COPPER	4	4	9	12	4	3	3	4
ER	LEAD	3	4	5	11	6	3	3	2
Д	TIN	1	1	1	1	1	1	0	1
TS	MOLYBDENUM	5	16	19	63	51	11	3	74
PAR	NICKEL	0	1	1	0	1	0	0	1
	MANGANESE	0	0	1	1	0	0	0	1
Z	SILVER	0	0	0	0	0	0	0	0
ITS I	TITANIUM	0	0	0	0	0	0	0	1
	POTASSIUM	0	7	4	6	5	4	5	4
	BORON	7	5	14	7	4	4	3	53
EM	SILICON	10	15	15	33	15	19	12	15
н	SODIUM	8	16	13	14	12	13	9	42
	CALCIUM	1938	2015	1453	1293	1265	2068	2163	1739
	MAGNESIUM	114	200	759	876	805	152	19	282
	PHOSPHORUS	805	879	1064	961	873	877	846	734
	ZINC	957	1046	1186	1164	1061	1008	980	856
	BARIUM	0	0	0	0	0	0	0	0

Values

Should Be\*

SUS Viscosity @ 210°F	61.3	58-65	60.8	61.9	59.0	60.0	60.5
cSt Viscosity @ 100°C	10.58	9.7-11.9	10.45	10.76	9.92	10.22	10.37
Flashpoint in °F	415	>385	375	385	395	410	400
Fuel %	<0.5	<2.0	0.5	TR	<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 %	0.3	<0.6	0.2	0.2	0.2	0.2	0.2
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