



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 7/20/2021  
 CODE: 44/698

UNIT ID:  
 CLIENT ID:  
 PAYMENT:

<b>UNIT</b>	EQUIP. MAKE/MODEL: Jeep 3.6L V-6 Pentastar	OIL TYPE & GRADE: Quaker State Ultimate Durability
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 6,199 Miles
	ADDITIONAL INFO: Wrangler "Punk'n" Rubicon	

<b>CLIENT</b>	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS** The fourth report for your Jeep is the best one yet Metals and silicon have been steady, or steadily improving, and that's exactly what you want to find from a newer engine as the last of break-in leaves the system. There's probably not a whole lot of room left for improvement, so look forward to more reports that look like this one going forward. The viscosity is staying in grade, and no harmful coolant or excess fuel is present. The TBN read 2.0 this time, so the oil was starting to run low on active additive. With that in mind, sticking around 6K-7K miles sounds like a good plan.

<b>ELEMENTS IN PARTS PER MILLION</b>	MI/HR on Oil	6,199	<b>UNIT / LOCATION AVERAGES</b>	5,990	3,995	1,622	<b>UNIVERSAL AVERAGES</b>
	MI/HR on Unit	17,806		11,607	5,617	1,622	
	Sample Date	7/4/2021		8/23/2020	12/21/2019	7/27/2019	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	
ALUMINUM	6	6	6	6	6		4
CHROMIUM	1	1	1	1	1		1
IRON	23	22	28	23	28		18
COPPER	6	10	8	16	45		19
LEAD	0	0	0	0	1		0
TIN	0	0	0	0	0		0
MOLYBDENUM	166	173	188	167	220		100
NICKEL	1	0	0	0	0		0
MANGANESE	2	3	2	3	8		1
SILVER	0	0	0	0	0		0
TITANIUM	0	0	0	0	0		3
POTASSIUM	4	3	1	3	5		3
BORON	27	29	35	32	64		52
SILICON	22	27	26	33	92		13
SODIUM	11	10	12	7	13		24
CALCIUM	1354	1417	1523	1385	2043		1564
MAGNESIUM	498	471	555	362	13		431
PHOSPHORUS	703	709	790	643	628		674
ZINC	831	827	919	734	709		771
BARIUM	0	0	0	0	1		0

Values Should Be\*

<b>PROPERTIES</b>	SUS Viscosity @ 210°F	54.4	46-57	53.4	51.7	52.1
	cSt Viscosity @ 100°C	8.59	6.0-9.7	8.29	7.79	7.92
	Flashpoint in °F	420	>385	450	435	430
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.1	0.2
	TBN	2.0	>1.0	2.6	4.1	5.5
	TAN					
	ISO Code					

\* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

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