



# OIL REPORT

LAB NUMBER:  
 REPORT DATE: 5/21/2024  
 CODE: 20/88

UNIT ID:  
 CLIENT ID:  
 PAYMENT:

UNIT	EQUIP. MAKE/MODEL: Jeep 3.6L V-6 Pentastar	OIL TYPE & GRADE: Castrol Magnatec 5W/30
	FUEL TYPE: Gasoline (Unleaded)	OIL USE INTERVAL: 4,873 Miles
	ADDITIONAL INFO:	

CLIENT	PHONE:
	FAX:
	ALT PHONE:
	EMAIL:

**COMMENTS**  
 Silicon is the standout element in your Gladiator's latest report. A sudden spike in silicon can point to dirt in the oil, though we're not convinced that's the source here, since typically dirt causes a corresponding increase in wear and metals are still low/steady in this report. Silicon might be a harmless sealer or lube, though it never hurts to check over air filtration to ensure everything is sealed up tight. The mix of oils worked well, and no fuel or coolant contamination showed up. Just check back at the next regular service to see if silicon drops back into line.

ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	4,873	UNIT / LOCATION AVERAGES	5,029	4,600	5,403	5,316	3,079	UNIVERSAL AVERAGES
	MI/HR on Unit	34,830		29,957	24,928	20,328	14,925	6,028	
	Sample Date	4/26/2024		1/27/2024	11/5/2023	8/11/2023	5/21/2023	11/4/2022	
	Make Up Oil Added	0 qts		0 qts	0 qts	0 qts	0 qts	0 qts	
ALUMINIUM	4	4	5	2	3	4	4	4	4
CHROMIUM	1	1	1	0	1	1	1	1	1
IRON	11	12	12	7	16	17	19	18	18
COPPER	2	3	2	1	4	4	8	14	14
LEAD	0	0	0	0	0	0	0	0	0
TIN	1	0	0	0	0	1	0	0	0
MOLYBDENUM	87	92	159	83	72	85	161	106	106
NICKEL	0	0	0	0	0	0	0	0	0
MANGANESE	1	1	1	0	2	2	5	2	2
SILVER	0	0	0	0	0	0	0	0	0
TITANIUM	14	3	0	0	0	3	17	3	3
POTASSIUM	1	1	0	0	2	1	1	3	3
BORON	116	42	42	26	40	11	63	50	50
SILICON	21	9	7	5	6	8	26	14	14
SODIUM	6	4	5	2	5	4	5	17	17
CALCIUM	1245	1287	1299	1088	979	1157	1838	1383	1383
MAGNESIUM	560	439	485	436	651	420	186	496	496
PHOSPHORUS	681	657	673	633	617	609	730	667	667
ZINC	773	757	803	698	709	712	827	759	759
BARIUM	0	0	0	0	0	0	0	0	0

Values Should Be\*

PROPERTIES	SUS Viscosity @ 210°F	56.0	56-63	51.3	51.5	57.4	51.5	51.6
	cSt Viscosity @ 100°C	9.06	9.1-11.3	7.68	7.73	9.48	7.72	7.77
	Flashpoint in °F	430	>385	415	410	425	385	420
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5	TR	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	<0.1	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.1	<0.6	0.2	0.1	0.1	0.2	0.1
	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