

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information					Sample Information				
		Equipment ID: 2018 JEEP E Secondary ID: Component Type: UNLEADED GASOLINE ENGINE Manufacturer: JEEP Model: GRAND CHEROKEE Application: UNKNOWN Sump Capacity: 6 qt					Tracking Number: 25139L26692 Lab Number: I-222990 Lab Location: Indianapolis Data Analyst: FLG Sampled: 17-Dec-2025 Submitted: 17-Dec-2025 Received: 19-Dec-2025 Completed: 23-Dec-2025				
		Filter Information		Miscellaneous Information					Product Information		
Filter Type: Information Requested Micron Rating: 0							Product Manufacturer: RED LINE Product Name: HIGH PERFORMANCE MOTOR OIL Viscosity Grade: SAE 0W40				
Comments	Check for source of FUEL LEAK. Fuel is at a SIGNIFICANT LEVEL. Fuel dilution may be caused by component faults related to injectors, ignition/timing or excessive blow-by. Additional causes include heavy throttle application, engine lugging, frequent short trips, and excessive idling. FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. Please provide the APPLICATION (transportation, off-highway, gas/oil field, industrial, marine, mining, automotive, etc.) for a more thorough analysis. Lubricant and filter change acknowledged. Your note was taken into consideration.										

Sample #	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)					Additive Metals (ppm)					
	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1	7	1	0	2	1	0	0	0	0	0	8	4	0	0	240	0	0	0	78	513	1349	0	694	786
2	7	1	0	6	2	0	0	0	0	0	13	9	8	0	396	0	0	0	82	277	2020	0	1028	1118

Sample #	Sample Information								Contaminants			Fluid Properties					
	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base No. D4739	Oxidation	Nitration	
			mi	mi		qt		%	%	%	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1mm	
1	31-Jul-2024	02-Aug-2024	2000	95469	Yes	0	Yes	1.5 - GC	<.1	<.1 - FTIR		8.0		4.23	8	8	
2	17-Dec-2025	19-Dec-2025	3250	104973	Yes	0	Yes	3.6 - GC	<.1 - E2412	<.1 - FTIR		12.9		3.65	85	13	

Sample #	Particle Count (particles/mL)										Test Method	Additional Testing	
	ISO Code	> 4	> 6	> 10	> 14	> 21	> 38	> 70	> 100				
	Based On 4/6/14	particles/mL	particles/mL	particles/mL	particles/mL	particles/mL	particles/mL	particles/mL	particles/mL	particles/mL			
1	//												
2	//												

Comments are advisory only and are based on the sample information provided by the customer being valid. Results related only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.

Historical Comments	1	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MINOR LEVEL. Please provide missing application and sump information. Lubricant and filter change acknowledged.
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