Oil Analyzers INC.

Lubricant Analysis Report

North America: +1-877-458-3315

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information	Component Information	Sample Information
Account Number: [redacted]	Equipment ID: 25 GLADIATOR	Tracking Number: [redacted]
Company Name: [redacted]	Secondary ID:	Lab Number:
Contact:	Component Type: UNLEADED GASOLINE ENGINE	Lab Location: Indianapolis
Address: [redacted]	Manufacturer: JEEP	Data Analyst: KDN
Phone Number: [redacted]	Model: 3.6L	Sampled: 08-Oct-2025
	Application: AUTOMOTIVE	Submitted: 11-Oct-2025
	Sump Capacity: 5 qt	Received: 17-Oct-2025
		Completed: 24-Oct-2025

Filter Information	Miscellaneous Information	Product Information
Filter Type: FULLFLOW		Product Manufacturer: CHEVRON
Micron Rating: 25		Product Name: DELO 400 XSP
		Viscosity Grade: SAE 5W40

Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Base Number is SLIGHTLY LOW. As Base Number depletes, the ability to neutralize acids is diminished. Lubricant and filter change acknowledged.

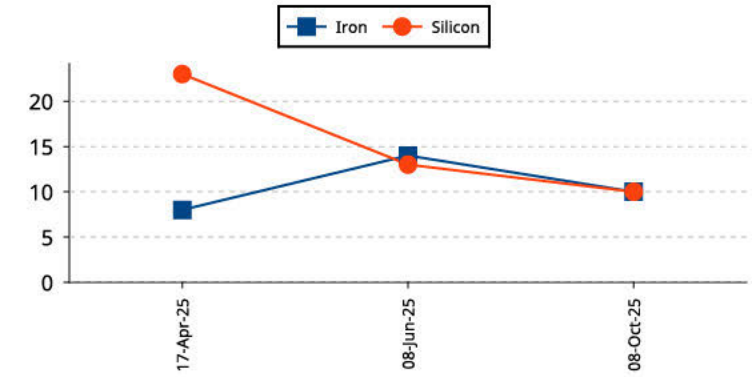
	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
Sample #	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1	8	0	0	2	3	0	1	0	0	0	23	3	1	0	118	0	2	1	45	325	914	0	501	617
2	14	1	0	3	4	0	0	0	0	0	13	5	1	0	104	0	2	0	165	921	1336	0	797	905
3	10	0	0	2	2	0	0	0	0	0	10	3	0	0	7	1	1	0	59	718	1384	0	795	867

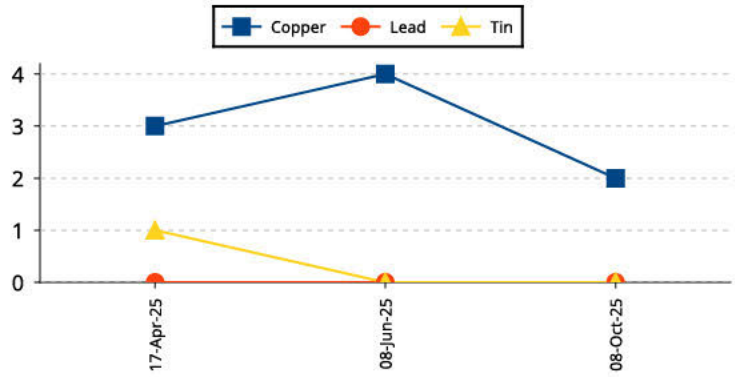
	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time mi	Unit Time mi	Lube Change	Lube Added qt	Filter Change	Fuel Dilution %	Soot %	Water %	Viscosity 40°C cSt	Viscosity 100 °C cSt	Acid Number mg KOH / g	Base No. D4739 mg KOH / g	Oxidation abs / cm	Nitration abs / 0.1mm
1	17-Apr-2025	30-Apr-2025	3292	6768	Yes	0	Yes	1.3 - GC	<.1 - E2412	<.1 - FTIR		9.4		3.53	8	8
2	08-Jun-2025	20-Jun-2025	3067	9835	Yes	0	Yes					11.4		7.23		
3	08-Oct-2025	17-Oct-2025	3518	16986	Yes	0	Yes	<1 - Estimate	<.1 - E2412	<.1 - FTIR		14.3		3.70	12	10

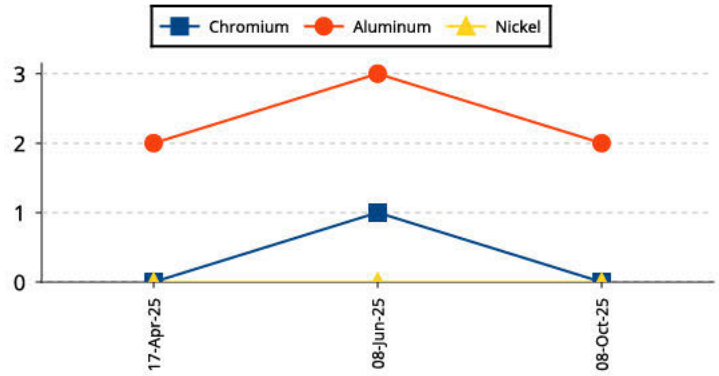
	Particle Count (particles/mL)										Additional Testing
Sample #	ISO Code Based On 4/6/14	> 4 particles / mL	> 6 particles / mL	> 10 particles / mL	> 14 particles / mL	> 21 particles / mL	> 38 particles / mL	> 70 particles / mL	> 100 particles / mL	Test Method	
1	/ /										
2	/ /										
3	/ /										

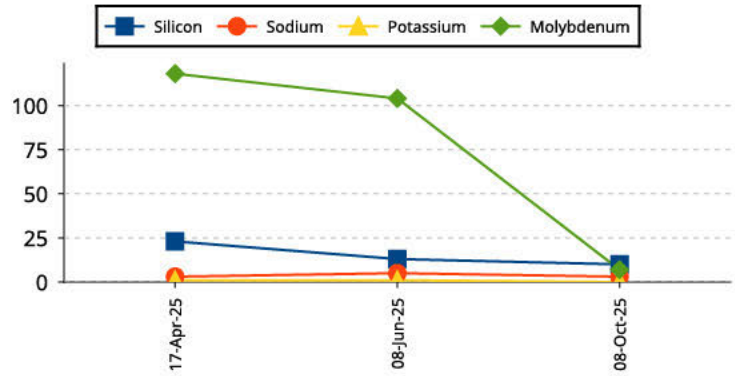
Comments are advisory only and are based on the sample information provided by the customer being valid. Results related only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.

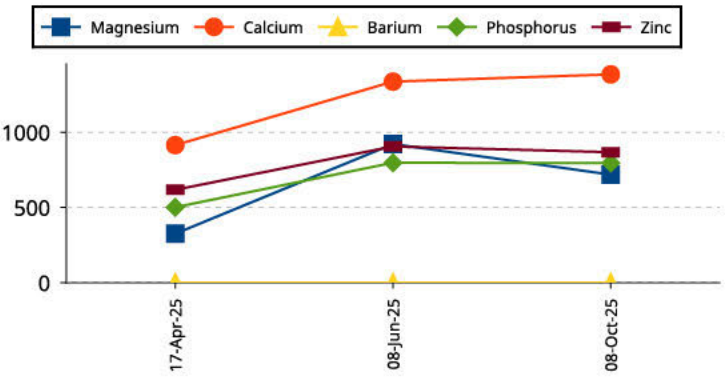
Historical Comments		
	1	Data indicates no abnormal findings. Resample at normal interval. Lubricant and filter change acknowledged.
	2	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Viscosity is MODERATELY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component. Lubricant and filter change acknowledged.

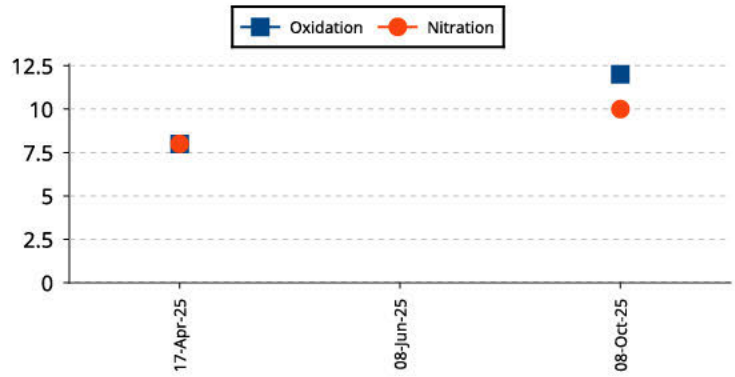

Iron
Silicon
20
15
10
5
0
17-Apr-25
08-Jun-25
08-Oct-25

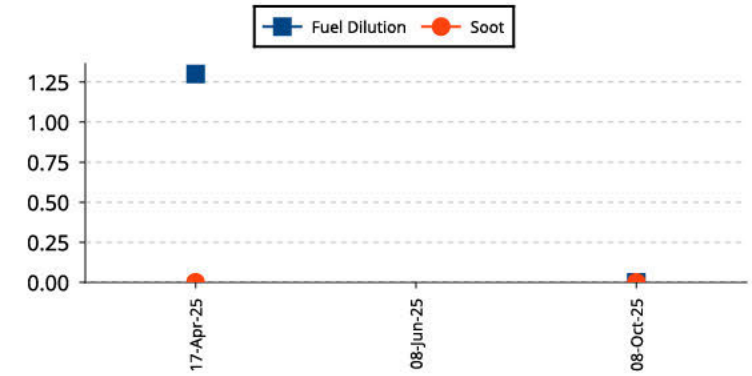

Copper
Lead
Tin
4
3
2
1
0
17-Apr-25
08-Jun-25
08-Oct-25

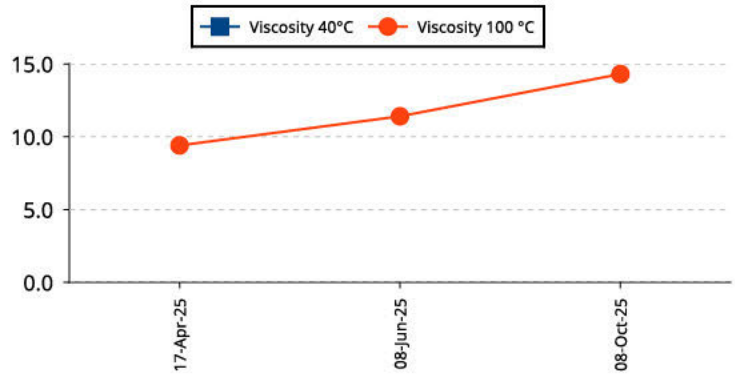

Chromium
Aluminum
Nickel
3
2
1
0
17-Apr-25
08-Jun-25
08-Oct-25

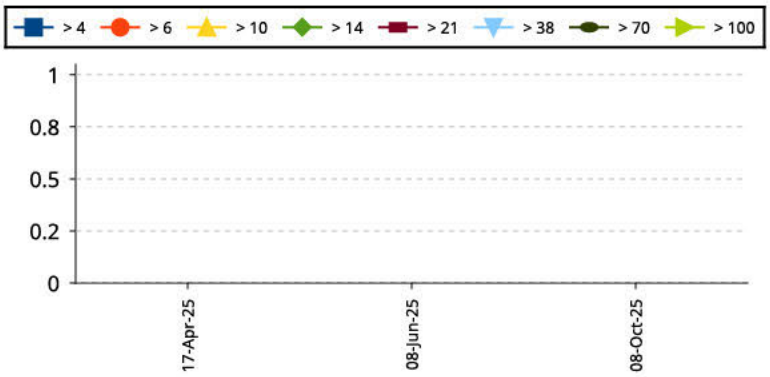

Silicon
Sodium
Potassium
Molybdenum
100
75
50
25
0
17-Apr-25
08-Jun-25
08-Oct-25

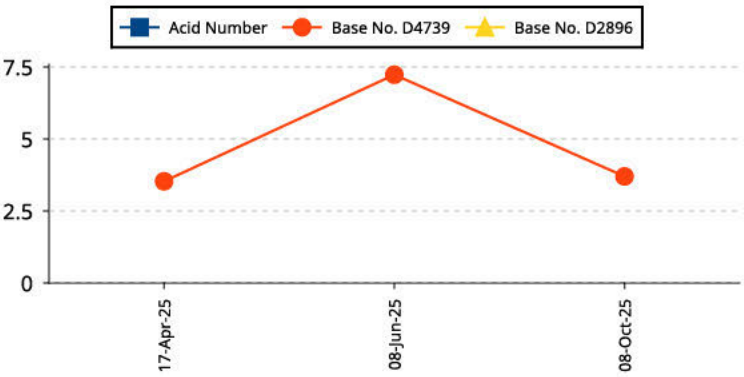

Magnesium
Calcium
Barium
Phosphorus
Zinc
1000
500
0
17-Apr-25
08-Jun-25
08-Oct-25


Oxidation
Nitration
12.5
10
7.5
5
2.5
0
17-Apr-25
08-Jun-25
08-Oct-25


Fuel Dilution
Soot
1.25
1.00
0.75
0.50
0.25
0.00
17-Apr-25
08-Jun-25
08-Oct-25


Viscosity 40°C
Viscosity 100 °C
15.0
10.0
5.0
0.0
17-Apr-25
08-Jun-25
08-Oct-25


> 4
> 6
> 10
> 14
> 21
> 38
> 70
> 100
1
0.8
0.5
0.2
0
17-Apr-25
08-Jun-25
08-Oct-25


Acid Number
Base No. D4739
Base No. D2896
7.5
5
2.5
0
17-Apr-25
08-Jun-25
08-Oct-25