



Lubricant Analysis Report

North America: +1-877-458-3315

0	1	2	3	4
NORMAL	ABNORMAL	ABNORMAL	CRITICAL	CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: OILANA Company Name: SYNTHETIC Contact: [REDACTED] Address: [REDACTED] Phone Number: [REDACTED]		Component ID: 2012 CRUZE E Secondary ID: Component Type: UNLEADED GASOLINE ENGINE Manufacturer: GENERAL MOTORS Model: 1.4L Application: AUTOMOTIVE Sump Capacity: 4 qt		Tracking Number: 21005Q92035 Lab Number: I-275185 Lab Location: Indianapolis Data Analyst: RMF Sampled: 18-Sep-2021 Submitted: 18-Sep-2021 Received: 05-Oct-2021 Completed: 06-Oct-2021	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: FULLFLOW Micron Rating: 0		Miscellaneous: Lubricant is AMSOIL ASL 5w-30		Product Manufacturer: AMSOIL Product Name: AZO SIGNATURE SERIES MOTOR OIL Viscosity Grade: SAE 0W30	
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. FUEL DILUTION is at a MINOR LEVEL. Flagged additive levels are different than what should be present for the identified lubricant. This may have been topped off with a different lubricant, the fluid may be misidentified, or a different lubricant or formulation may have been in use prior to a recent change. Lubricant and filter change acknowledged.				

Sample #	Wear Metals (ppm)										Contaminant			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	11	0	0	6	1	0	0	0	1	0	10	7	13	0	140	1	0	0	48	14	3363	0	627	727
2	7	0	1	3	1	0	0	0	0	0	8	6	3	0	157	0	0	0	107	12	3810	0	709	873
3	11	0	0	3	2	0	1	0	0	0	12	10	1	0	264	1	0	2	87	1052	2074	0	886	991

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	14-Dec-2015	28-Dec-2015	6680	32387	Yes	0	Yes	<1 - Estimate	<.1	<.1 - FTIR		10.9		2.97	64	17	
2	15-Aug-2016	18-Aug-2016	5023	39218	Yes	0	Yes	<1 - Estimate	0.3 - E2412	<.1 - FTIR		10.1		5.08	51	11	
3	18-Sep-2021	05-Oct-2021	6194	87326	Yes	0	Yes	1.6 - GC	<.1	<.1 - FTIR		11.1		3.67	55	14	

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			
1	//											
2	//											
3	//											

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Results relate only to the items tested. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.