Lubricant Analysis Report

Oil Analyzers INC.

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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: RED SUBE FE	Tracking Number: [redacted]
Company Name: [redacted]	Secondary ID: 2025 CROSSTREK WILDERNESS 2.5L	Lab Number: 1-861434
Contact: [redacted]	Component Type: UNLEADED GASOLINE ENGINE	Lab Location: Indianapolis
Address: [redacted]	Manufacturer: SUBARU	Data Analyst: JAS
	Model: 2.5 L	Sampled: 30-Jun-2025
Phone Number: [redacted]	Application: AUTOMOTIVE	Submitted: 30-Jun-2025
	Sump Capacity:	Received: 07-Jul-2025
		Completed: 11-Jul-2025

Filter Information	Miscellaneous Information	Product Information
Filter Type: FULL-FLOW AND KIDNEY LOOP	Miscellaneous: Fram DF PH73[illegible]	Product Manufacturer: SUBARU
Micron Rating:		Product Name: SYNTHETIC MOTOR OIL
		Viscosity Grade: SAE 0W16

Comments	SILICON is high, however, there does not appear to be any wear as a result. SILICON sources can be abrasives (dirt, Alumina Silica), seals and gasket material, lube additive or lube supplements, and/or environmental contaminant; FUEL DILUTION is at a MINOR LEVEL. 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	27	0	0	4	62	0	2	0	0	0	**417**	5	3	0	843	0	33	0	273	298	1538	4	731	851
2	16	0	0	3	15	0	0	0	0	0	**184**	4	0	0	254	0	8	1	113	495	1146	1	725	805

	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	24-Apr-2025	06-May-2025	1023	1023	Yes	0	Yes	3.1 - GC	<.1 - E2412	<.1 - FTIR		5.9		6.26	11	7
2	30-Jun-2025	07-Jul-2025	4000	5000	Yes	0	Yes	2.2 - GC	<.1 - E2412	<.1 - FTIR		6.9		4.63	7	7

	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	Particle Quantifier Index Number
1	/ /										
2	/ /										9

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	Check air induction system (filters, housings, air intake, etc.) for source of abrasives (dirt). Abrasives are at a SEVERE LEVEL: FUEL DILUTION is at a MODERATE LEVEL; FUEL DILUTION has caused viscosity to decrease slightly below grade; Suspect most of the copper may be coming from the lubricant cooler and/or EGR cooler (as applicable). Lubricant and filter change acknowledged. Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated.