



"Maintaining Oil and Equipment Through Science"

# Lubricant Analysis Report

North America: +1-877-971-7799

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: Company Name: Contact: Address: Phone Number:		Component ID: Secondary ID: 2005 RoadTrek Versatile 190 Component Type: UNLEADED GASOLINE ENGINE Manufacturer: GENERAL MOTORS Model: 6.0L Application: RECREATIONAL VEHICLE Sump Capacity:		Tracking Number: Lab Number: I-344873 Lab Location: Indianapolis Data Analyst: RNM Sampled: 05-Feb-2019 Submitted: 06-Feb-2019 Received: 08-Feb-2019 Completed: 12-Feb-2019	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: UNKNOWN Micron Rating: 0				Product Manufacturer: UNKNOWN Product Name: UNKNOWN Viscosity Grade: <a href="#">Information Requested</a>	
Comments	SUGGEST investigating source of CONTAMINATION. Sodium is at a SEVERE LEVEL; Sodium sources: coolant (antifreeze), lube additive or supplement, and/or environmental contaminant; FUEL DILUTION is at a MODERATE LEVEL; Low viscosity may be due to FUEL DILUTION. FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. Copper is at a MINOR LEVEL; Most of the COPPER may be from fuel lines or similar tubing; Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties. 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	29	0	1	1	107	4	0	0	0	0	15	445	0	0	10	3	0	0	13	23	1779	0	753	862

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	Lube	unk	Filter	% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm	
1	05-Feb-2019	08-Feb-2019	0	69505	Unk	0	Unk	2.9 - GC	<.1	<.1 - FTIR		8.1		5.06	7	6	

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

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

Historical Comments