



"Maintaining Oil and Equipment Through Science"

Lubricant Analysis Report

North America: +1-877-251-8315

0	1	2	3	4
NORMAL	ABNORMAL		CRITICAL	

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number: JGLUBR- Company Name: TREK TECH LLC Contact: JOSHUA FLOWERS Address: Phone Number: 704-200-3462		Component ID: 1FDXE4 Secondary ID: 2016 THOR 29 F.E Component Type: UNLEADED GASOLINE ENGINE Manufacturer: FORD Model: E450 Application: RECREATIONAL VEHICLE Sump Capacity:		Tracking Number: 23171U42903 Lab Number: I - 553544 Lab Location: Indianapolis Data Analyst: QWS Sampled: 15-Aug-2023 Received: 16-Aug-2023 Completed: 18-Aug-2023	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: Information Requested Micron Rating: 0				Product Manufacturer: Information Requested Product Name: Information Requested Viscosity Grade: SAE 5W30	
Comments Check air induction system (filters, housings, air intake, etc.) for source of abrasives (dirt). Abrasives (Silicon) are at a SIGNIFICANT LEVEL; LUBRICANT and FILTER CHANGE is suggested if not done at sampling time. Base number is flagged, however without complete lubricant information, the starting point for this lubricant cannot be determined. Cylinder region metals (pistons, rings, liners etc.) are at a MODERATE LEVEL; Copper is at a MODERATE LEVEL; Most of the COPPER may be from fuel lines or similar tubing; Viscosity is MODERATELY LOW. Causes include contamination, incorrectly identified viscosity grade, or adding a different viscosity grade to the component. FUEL DILUTION is at a MINOR LEVEL. Manganese sources in unleaded gasoline engines include manganese/bronze valve guides and/or an additive added to the fuel; Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties.					

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	176	3	2	16	20	0	0	0	0	0	61	252	15	0	27	0	16	1	16	21	1801	0	607	794

Sample Information								Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time mi	Unit Time mi	Lube Change	Lube Added gal	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	15-Aug-2023	16-Aug-2023	0	12597	No	0	No	1.5 - GC	<.1	<.1 - FTIR		8.6		2.23	15	13

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

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.