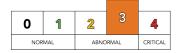


## **Lubricant Analysis Report**

North America: +1-877-808-3750

Latin America: +1-317-808-3750 / +502-3093-6466 (WhatsApp)

Europe: +1-317-808-3750



Overall report severity based on comments.

Additional Testing

Account Information	Component Information	Sample Information
Account Number: 153995-0002-0001	Component ID: CAT 824B E	Tracking Number: 22245F26709
Company Name: BOOM & BUCKET	Secondary ID: 36H1331	Lab Number: S-001849
Contact: KRIS HUFF	Component Type: DIESEL ENGINE	Lab Location: Salt Lake City
Address: 701 BRAZOS ST	Manufacturer: CATERPILLAR	Data Analyst: ZXH
AUSTIN, TX 78701 US	Model: D343	Sampled: 08-Jun-2023
Phone Number: 909-846-6495	Application: UNKNOWN	Received: 21-Jun-2023
	Sump Capacity:	Completed: 23-Jun-2023
Filter Information	Miscellaneous Information	Product Information
Filter Type: Information Requested		Product Manufacturer: Information Requested
Micron Rating: 0		Product Name: Information Requested
		Viscosity Grade: Information Requested

Check for source of FUEL LEAK. Fuel is at a SIGNIFICANT LEVEL. Fuel dilution may be caused by component faults related to injectors, ignition/timing or excessive blow-by. Additional causes include heavy throttle application, engine lugging, frequent short trips, and excessive idling. LUBRICANT and FILTER CHANGE is suggested if not done at sampling time. FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. Bearing metal is at a MODERATE LEVEL; ALUMINUM and LEAD in CATERPILLAR ENGINES may be from MAIN/ROD BEARINGS; Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties. Unit and/or lubricant TIME missing. Please provide missing application and sump information. Resample at half interval.

											Cor	ntamin	ant											
				We	ar Met	tals (p	om)				Me	tals (p	pm)	N	∕Iulti-S	ource	Metal	s (ppm	1)	А	dditive	Meta	ls (ppn	ר)
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	16	0	0	5	6	2	0	0	0	0	7	2	0	0	76	0	0	0	267	574	1463	0	795	964

		Sample	e Inforr	nation					Contaminants				Fluid Pr	operties	S	
Sample #	Jate Sampled	Date Received	ح Lube Time	ح Unit Time	ube Change	Lube Added	Filter Change	Fuel Dilution	% Soot	% Water	Viscosity بع 40°C	Viscosity م 100°C	M Acid Number	S Base No.	g sq / Oxidation	abs /
1	08-Jun-2023	21-Jun-2023	0	0	Unk	0	Unk	6.4 - GC	0.2 - E2412	<.1 - FTIR		12.0		4.62	14	7

				Partio	le Count	(particle	s/mL)				
Sample #	opo Oogo Oogo Based On 4/6/14	mL ^ particles /	o ^ particles / mL	01 ^ particles / mL	particles / 4	72 ^ particles / mL	&	OZ ^ particles / mL	00 ^ particles / mL	Test Method	
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.