POLARIS Laboratories

Lubricant Analysis Report

North America: +1-877-808-3750
Latin America: +1-317-808-3750 / +502-3093-6466 (WhatsApp)
Europe: +1-317-808-3750

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number:	153995-0002-0000	Component ID:	A7321020	Tracking Number:	24183M78107
Company Name:	BOOM & BUCKET	Secondary ID:	2000 CAT CP-563D	Lab Number:	S-247863
Contact:	KRIS HUFF	Component Type:	DIESEL ENGINE	Lab Location:	Salt Lake City
Address:	600 CONGRESS AVE	Manufacturer:	CATERPILLAR	Data Analyst:	KDN
	AUSTIN, TX US	Model:	3116	Sampled:	21-Oct-2024
Phone Number:	1888-313-1597/909-846-6495	Application:	CONSTRUCTION	Submitted:	29-Oct-2024
		Sump Capacity:		Received:	01-Nov-2024
				Completed:	06-Nov-2024

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

Comments	Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. FUEL DILUTION is at a MINOR LEVEL. FUEL DILUTION possibly caused by excessive idling; Please provide missing lubricant information. Manufacturer, product name, and viscosity grade are needed to properly evaluate lubricant properties. Unit and/or lubricant TIME missing.

	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	6	0	0	2	0	0	0	0	0	0	8	3	0	0	2	1	0	0	100	746	1382	0	743	842

	Sample Information						Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time h	Unit Time h	Lube Change	Lube Added unk	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	21-Oct-2024	01-Nov-2024	0	0	No	0	No	2.3 - GC	<.1	<.1 - FTIR		11.3		5.57	8	6

	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	
1	/ /										