



# 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: 153995-0000-0000 Company Name: BOOM AND BUCKET Contact: ADAM LAWRENCE/KRIS HUFF Address: C/O SAMIR SHAH 71 PARK DRIVE ATHONTON, CA 94027 US Phone Number: 213-463-5980/775-225-3529		Component ID: 2011 JOHN DEERE 135D E Secondary ID: 1FF135DXHBD302793 Component Type: DIESEL ENGINE Manufacturer: <a href="#">Information Requested</a> Model: <a href="#">Information Requested</a> Application: UNKNOWN Sump Capacity:		Tracking Number: 23249R06300 Lab Number: S-067734 Lab Location: Salt Lake City Data Analyst: ARF Sampled: 27-Oct-2023 Received: 31-Oct-2023 Completed: 07-Nov-2023	
Filter Information		Miscellaneous Information		Product Information	
Filter Type: <a href="#">Information Requested</a> Micron Rating: 0				Product Manufacturer: <a href="#">Information Requested</a> Product Name: <a href="#">Information Requested</a> Viscosity Grade: <a href="#">Information Requested</a>	
Comments					
Flagged data does not indicate an immediate need for maintenance action. Continue to observe the trend and monitor equipment and fluid conditions. Aluminum is at a MODERATE LEVEL; ALUMINUM sources in ENGINES include pistons, block and components (intake manifold, head, bearing caps), thrust bearings, main/rod bearing overlay or backing, alumina silica, or contamination from grease. Copper is at a MINOR LEVEL; Bushing/thrust metal and/or most of the copper may be coming from lube cooler (as applicable); Tin is at a MINOR LEVEL; TIN may be coming from Piston Flashing, Bearing Overlay, Bronze Alloy (usually in combination with Copper), or from a Babbitt material along with Copper and Lead. Coolant indicators (Sodium, Potassium) are at a MINOR LEVEL; In order to properly compare data to the correct standards, please provide COMPONENT MANUFACTURER and MODEL, and the FLUID MANUFACTURER, PRODUCT NAME, and VISCOSITY GRADE. Please provide missing application and sump information.					

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	40	1	1	3	1	4	0	0	0	0	7	4	2	7	113	0	1	0	251	636	1635	0	903	988
2	35	2	1	49	51	0	3	0	0	0	5	38	20	1	243	0	1	0	35	811	1214	0	1108	1232

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
			h	h	gal		%	%	%	cSt	cSt	mg KOH / g	mg KOH / g	abs / cm	abs / 0.1mm	
1	26-Sep-2023	05-Oct-2023	0	0	Unk	0	Unk	<2 - Estimate	0.2 - E2412	<.1 - FTIR		14.2		5.31	17	10
2	27-Oct-2023	31-Oct-2023	0	0	Unk	0	Unk	<2 - Estimate	0.3 - E2412	<.1 - FTIR		13.8		5.18	11	7

Sample #	Particle Count (particles/mL)									Test Method	Additional Testing	
	ISO Code	> 4	> 6	> 10	> 14	> 21	> 38	> 70	> 100			
	Based On	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL	particles / mL			
1	4/6/14	/ /										
2	/ /											

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.

Historical Comments	1
	Data indicates no abnormal findings. Resample at normal interval. In order to properly compare data to the correct standards, please provide COMPONENT MANUFACTURER and MODEL, and the FLUID MANUFACTURER, PRODUCT NAME, and VISCOSITY GRADE. Unit and/or lubricant TIME missing.

