LIEBHERR

CONSTRUCTION EQUIPMENT



[[\$20230806040203]] LIEBHERR TA2304161-Rear Axle

Sample No: LH06059592

Oil Type: GEAR OIL SAE 80W90

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SAMPLEIN	IFORMATION				
Sample Number	LH06059592				
Sample Date	28 Dec 2023				
Machine Hours	2804				
Oil Hours	0				
Oil Changed	N/A				
Sample Status	ABNORMAL				
OIL CONDITION					
Visc @ 40°C cSt	63.5				
CONTAMINATION					
- CONTAMINATION					

CONTAMINATION							
Water	%	NEG					
Silicon	ppm	10					
Sodium	ppm	13					
Potassium	ppm	2					

WE!	AR META	LS		
Iron	ppm	177	 	
Copper	ppm	9 1	 	
Lead	ppm	1	 	
Tin	ppm	4	 	
Aluminum	ppm	2	 	
Chromium	ppm	2	 	
Molybdenum	ppm	() <1	 	
Nickel	ppm	9	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	29	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	○ 3590				
Magnesium	ppm	10				
Zinc	ppm	1516				
Phosphorus	ppm	1246				
Barium	ppm	4				
Boron	ppm	126				



HEAVY MACHINES INC. 3930 EAST RAINES RD MEMPHIS, TN US 38118

Contact: J. DAVIS JDAVIS@HEAVY.LLC.COM

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F: (901)260-2245

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot:LEC0051Unique No:10830974Signed:Jonathan HesterReport Date:16 Jan 2024

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GRAPHS

