# LIEBHERR

## **CONSTRUCTION EQUIPMENT**

### LIEBHERR LH50M 138820-1216 - Rear Left Wheel Hub

Sample No: LH0279430

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION						
Sample Number	LH0279430	LH0260706	LH			
Sample Date	11 Dec 2023	26 May 2023	26 Mar 2023			
Machine Hours	2140	950	524			
Oil Hours	0	0	0			
Oil Changed	N/A	N/A	N/A			
Sample Status	NORMAL	NORMAL	NORMAL			

	OIL CC	NDITION				
Visc @ 4	40°C	cSt	<b>177</b>	O 168	<b>141</b>	

CONTAMINATION								
Water	%	NEG	NEG	NEG				
Silicon	ppm	<b>2</b>	O 2	0 8				
Sodium	ppm	<b>4</b>	<b>4</b>	O 2				
Potassium	ppm	<b>0</b>	O <1	O <1				

₩E/	AR META	LS			
Iron	ppm	<b>32</b>	<b>1</b> 6	<b>2</b> 0	
Copper	ppm	<b>16</b>	<b>6</b>	<b>9</b>	
Lead	ppm	<b></b> <1	<b>0</b>	<1	
Tin	ppm	<b>0</b>	O 0	O 0	
Aluminum	ppm	<b></b> <1	<b></b> <1	O <1	
Chromium	ppm	<b>0</b>	<b>O</b> 0	O 0	
Molybdenum	ppm	<b>0</b>	<b></b> <1	<b>1</b>	
Nickel	ppm	<b>○</b> <1	O 0	O <1	
Titanium	ppm	0	0	0	
Silver	ppm	<1	0	0	
Manganese	ppm	<b></b> <1	<b></b> <1	O <1	
Vanadium	ppm	0	0	0	

ADDITIVES							
Calcium	ppm	<b>23</b>	○ 84	○ 262			
Magnesium	ppm	<b>0</b>	O <1	<b>1</b>			
Zinc	ppm	<b>19</b>	O 20	O 52			
Phosphorus	ppm	<b>2330</b>	O 2653	O 1538			
Barium	ppm	<b>()</b> <1	O 0	<b>1</b>			
Boron	ppm	<b>3</b>	<b>o</b> 5	<b>10</b>			



D.P. Metal Inc. 373A Chemin Grande-Ligne Saint-Urbain Premier, QC CA J0S 1Y0 Contact: Service .

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#### Diagnosis

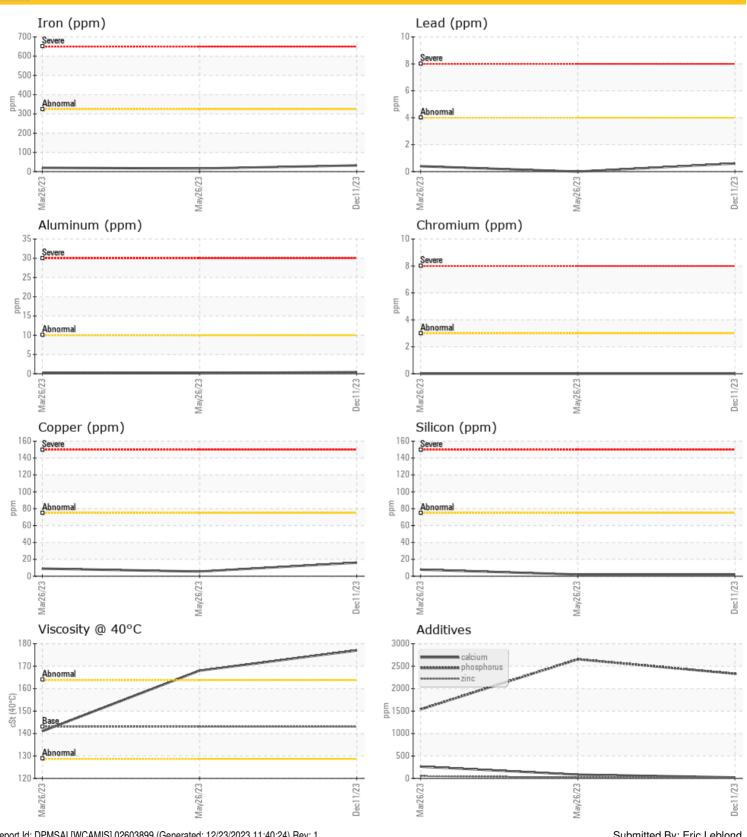
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DPMSAI
Unique No: 5696984
Signed: Wes Davis
Report Date: 18 Dec 2023





#### **GRAPHS**



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