



[[HAWAIIAN CEMENT]] LIEBHERR R9150B 45.1992301 (S/N 38178) - Right Final Drive

Sample No: LH0267639

Oil Type: BP ENERGEAR HYPO 80W90

	ATION			
Sample Number	LH0267639			
Sample Date	04 Dec 2023			
Machine Hours	424			
Oil Hours	424			
Oil Changed	Changed			
Sample Status	ATTENTION			

Visc @ 40°C

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C cSt

0 448

Water	%	NEG		
Silicon	ppm	04		
Sodium	ppm	0		
Potassium	ppm	○ <1		

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WF/	AR META	LS		
Iron	ppm	0 32	 	
Copper	ppm	0 5	 	
Lead	ppm	0	 	
Tin	ppm	○ <1	 	
Aluminum	ppm	01	 	
Chromium	ppm	<mark></mark> <1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	2	 	
Silver	ppm	0	 	
Manganese	ppm	<1	 	
Vanadium	ppm	0	 	

	TIVES			
Calcium	ppm	21	 	
Magnesium	ppm	<1	 	
Zinc	ppm	0	 	
Phosphorus	ppm	360	 	
Barium	ppm	0	 	
Boron	ppm	13	 	

LIEBHERR MINING EQUIPMENT CO

5800 S DOUGLAS HWY GILLETTE, WY US 82718 Contact: SCOTT BRADLEY scott.bradley@liebherr.com T: F:

Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type.

Depot:	LIEGIL
Unique No:	10781652
Signed:	Sean Felton
Report Date:	14 Dec 2023





Ferrous Alloys

GRAPHS

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Non-ferrous Metals

