3 I I R R -**CONSTRUCTION EQUIPMENT**

LIEBHERR LH50 142548-1216 - Front Right Wheel Hub

Sample No: LH0272483

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0272483	LH0254790	LH0243157				
Sample Date	30 Oct 2023	14 Apr 2023	11 Jan 2023				
Machine Hours	1993	1008	473				
Oil Hours	0	0	0				
Oil Changed	Changed	Changed	Changed				
Sample Status	NORMAL	NORMAL	NORMAL				
Visc @ 40°C cSt	0 123	135	0 163				

Silicon	ppm	5	8	0 17	
Sodium	ppm	5	3	0 4	
Potassium	ppm	0 0	0	01	

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WEAR METALS					
Iron	ppm	0 32	36	59	
Copper	ppm	0 38	0 18	27	
Lead	ppm	0	0	○ <1	
Tin	ppm	0 ()	0	○ <1	
Aluminum	ppm	○ <1	0	2	
Chromium	ppm	0 ()	○ <1	○ <1	
Molybdenum	ppm	0 🔘	01	2	
Nickel	ppm	0 ()	0	0	
Titanium	ppm	<1	<1	<1	
Silver	ppm	0	0	0	
Manganese	ppm	2	2	3	
Vanadium	ppm	0	<1	0	



AMERICAN STATE EQUIPMENT CO. 2400 NORTH 14TH AVENUE

WAUSAU, WI US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

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.

Silver	ppm	0	0	0		
Manganese	ppm	02	2	3		
Vanadium	ppm	0	<1	0		
ADDITIVES						
Calcium	ppm	0 34	0 40	87		
	ррпп	0 34	040	007		
Magnesium	ppm	0 14	6	2		
Zinc	ppm	58	32	25		
Phosphorus	ppm	0 719	948	1198		
Barium	ppm	0 (0	0		
Boron	ppm	0	3	02		

Depot: LEC0008 Unique No: 10726898 Signed: Sean Felton Report Date: 06 Nov 2023

Contact/Location: CHRIS BARTNIK - LEC0008





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GRAPHS

