LIEBHERR

CONSTRUCTION EQUIPMENT

116431-1217 - Front Differential

Sample No: LH0277749

Oil Type: LIEBHERR GEAR BASIC 90 LS



	CONTAMINATION								
Water	%	NEG	NEG	NEG	NEG				
Silicon	ppm	2	O 2	O 2	3				
Sodium	ppm	<1	O <1	O 1	1				
Potassium	ppm	0	O <1	0	O <1				

WEAR METALS								
Iron	ppm	11	3	O 2	O 7			
Copper	ppm	14	O 24	18	O 44			
Lead	ppm	○ <1	O <1	<1	O 2			
Tin	ppm	0	O 0	O	0			
Aluminum	ppm	 <1	O <1	<1	 <1			
Chromium	ppm	0	O 0	O 0	0			
Molybdenum	ppm	○ <1	0	O	0			
Nickel	ppm	0	O 0	<1	0			
Titanium	ppm	0	0	0	0			
Silver	ppm	0	0	0	0			
Manganese	ppm	0	O <1	<1	 <1			
Vanadium	ppm	0	0	0	0			

Vanadium	ppm	0	0	0	0				
ADDITIVES									
Calcium	ppm	21	6	8	8				
Magnesium	ppm	13	O 1	O 1	O 2				
Zinc	ppm	27	18	O 15	○ 34				
Phosphorus	ppm	1499	O 1381	O 1332	2296				
Barium	ppm	4	O <1	0	5				
Boron	ppm	253	○ 316	○ 325	283				





American Iron and Metal

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Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: BAKOTT
Unique No: 5711754
Signed: Wes Davis
Report Date: 23 Jan 2024

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GRAPHS

