LIEBHERR

CONSTRUCTION EQUIPMENT

113718-1216 - Front Right Wheel Hub

Sample No: LH0279269

Oil Type: LIEBHERR GEAR BASIC 90 LS



CONT	CONTAMINATION							
Water	%	NEG	NEG	NEG	NEG			
Silicon	ppm	2	O 5	3	0 8			
Sodium	ppm	2	5	5	10			
Potassium	ppm	1	O 2	O <1	02			

₩E/	R META	LS			
Iron	ppm	2 6	36	1 7	O 42
Copper	ppm	9	7	7	O 14
Lead	ppm	() <1	O 0	O <1	O <1
Tin	ppm	0	O 0	O <1	O <1
Aluminum	ppm	() <1	O <1	O <1	O 1
Chromium	ppm	0	O 0	O 0	O <1
Molybdenum	ppm	0	0	<1	O <1
Nickel	ppm	O <1	O 0	 <1	O <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	O 0	O <1	O <1
Manganese	ppm	() <1	<1	<1	O 2
Vanadium	ppm	0	0	0	0

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ADDITIVES							
Calcium	ppm	35	25	○ 35	○ 85		
Magnesium	ppm	1	O 1	O 1	3		
Zinc	ppm	11	O 22	O 26	59		
Phosphorus	ppm	1729	2281	2649	3414		
Barium	ppm	0	O 0	0	O <1		
Boron	ppm	137	21	58	168		





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.

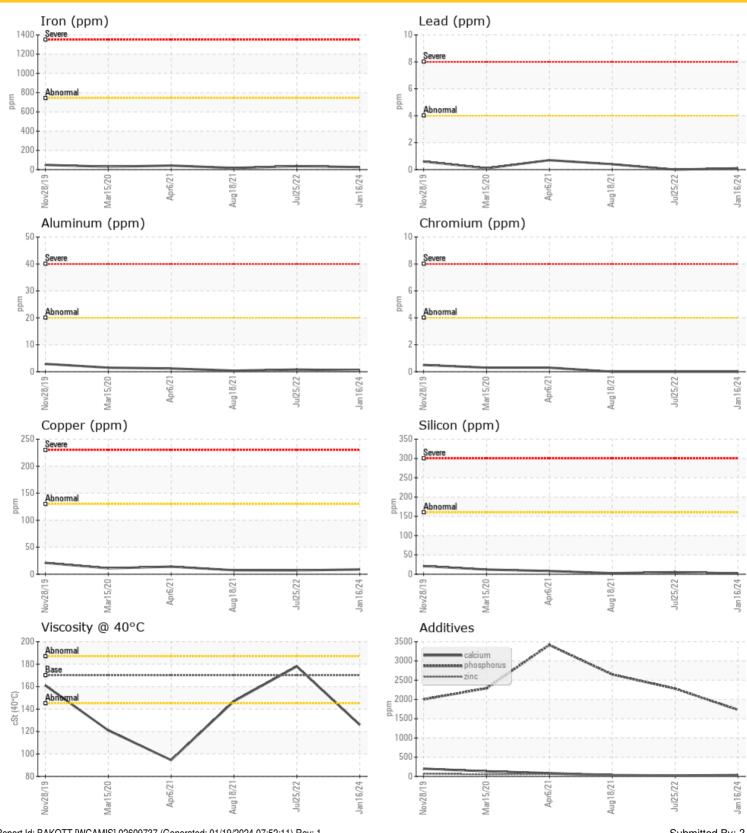
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CONSTRUCTION EQUIPMENT





GRAPHS



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