

## 113718-1216 - Front Left Wheel Hub

Sample No: LH0279270

**Oil Type:** LIEBHERR GEAR BASIC 90 LS

## **SAMPLE INFORMATION**

Sample Number		LH0279270	LH0234880	LH0203480	LH
Sample Date		16 Jan 2024	22 Jul 2022	18 Aug 2021	06 Apr 2021
Machine Hours		5998	4000	0	0
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL
Visc @ 40°C	cSt	129	166	155	98.8
- <b>1</b>					

Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	<b>3</b>	○ 3	3	9	
Sodium	ppm	03	○ 5	5	07	
Potassium	ppm	0 2	03	01	01	

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WEA	R METALS				
Iron	ppm	<b>0</b> 31	26	20	37
Copper	ppm	<b>0</b> 10	6	9	0 16
Lead	ppm	<b>○</b> <1	0	○ <1	○ <1
Tin	ppm	0	0	○ <1	0
Aluminum	ppm	<b>○</b> <1	○ <1	○ <1	01
Chromium	ppm	0	0	0	○ <1
Molybdenum	ppm	0	0	○ <1	○ <1
Nickel	ppm	<b>○</b> <1	◯ <1	○ <1	0 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	○ <1	○ <1
Manganese	ppm	<b>○</b> <1	○ <1	○ <1	01
Vanadium	ppm	0	0	0	0

**ADDITIVES** 

Calcium	ppm	26	36	38	90
Magnesium	ppm	01	0 1	0 1	3
Zinc	ppm	<b>10</b>	23	30	<b>6</b> 0
Phosphorus	ppm	0 1719	2310	2476	2542
Barium	ppm	0	0	0	○ <1
Boron	ppm	136	26	48	0 181





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:	5710824
Signed:	Wes Davi
Report Date:	18 Jan 20

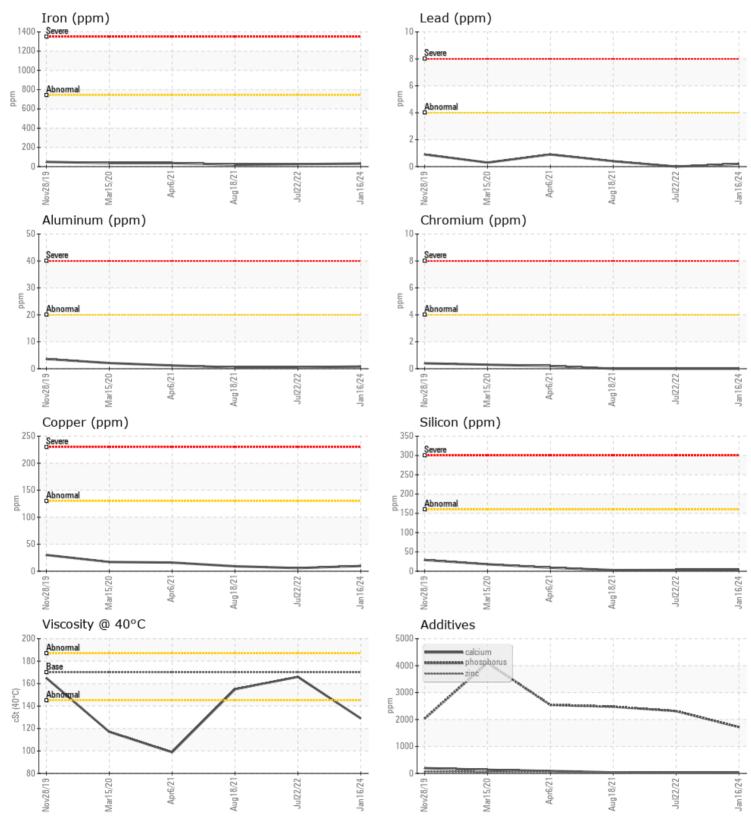
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