

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 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

#### American Iron and Metal

2555 Sheffield Road  
Ottawa, ON  
CA K1B 3V6  
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#### OIL CONDITION

Visc @ 40°C	cSt	129	166	155	98.8
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	3	3	9
Sodium	ppm	3	5	5	7
Potassium	ppm	2	3	1	1



#### WEAR METALS

Iron	ppm	31	26	20	37
Copper	ppm	10	6	9	16
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	26	36	38	90
Magnesium	ppm	1	1	1	3
Zinc	ppm	10	23	30	60
Phosphorus	ppm	1719	2310	2476	2542
Barium	ppm	0	0	0	<1
Boron	ppm	136	26	48	181

#### 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 Davis  
Report Date: 18 Jan 2024



### GRAPHS

