

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### 116431-1217 - Front Right Wheel Hub

Sample No: LH0277751

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0277751	LH0128849	LH0239234	LH
Sample Date	08 Jan 2024	09 May 2023	29 Aug 2022	26 Jan 2022
Machine Hours	8104	7133	6053	4903
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	119	143	100	103
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#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	26	46	36	67
Copper	ppm	6	6	12	13
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	4	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	9	11	11	13
Magnesium	ppm	1	<1	2	2
Zinc	ppm	14	15	21	27
Phosphorus	ppm	1574	2134	1284	1357
Barium	ppm	3	7	19	44
Boron	ppm	215	108	303	283

#### 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: 5711758  
Signed: Wes Davis  
Report Date: 23 Jan 2024



### GRAPHS

