

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 144157-1216 - Swing Drive

Sample No: LH0255456

Oil Type: LIEBHERR SYNTOGEAR PLUS 75W-90



**CALGARY METALS (1985) LTD.**  
 3415 OGDEN RD. SE.  
 CALGARY, AB  
 CA T2G 4N4  
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#### Sample Information

Sample Number	LH0255456	LH0255444	LH0225084	---
Sample Date	21 Jun 2024	17 Nov 2023	15 Feb 2023	---
Machine Hours	3338	2077	472	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### Oil Condition

Visc @ 40°C	cSt	● 110	● 117	● 177	---
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#### Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	● <1	● 1	● 2	---
Sodium	ppm	● 2	● 5	● 3	---
Potassium	ppm	● 1	● 2	● 2	---



#### Wear Metals

Iron	ppm	● 275	● 189	● 326	---
Copper	ppm	● 80	● 62	● 54	---
Lead	ppm	● 2	● 2	● 2	---
Tin	ppm	● 2	● <1	● 2	---
Aluminum	ppm	● <1	● <1	● <1	---
Chromium	ppm	● 2	● 1	● 1	---
Molybdenum	ppm	● 0	● 0	● 0	---
Nickel	ppm	● <1	● <1	● <1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	● 2	● 1	● 3	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	● 55	36	● 27	---
Magnesium	ppm	2	2	● 1	---
Zinc	ppm	36	21	● 18	---
Phosphorus	ppm	● 1529	● 1620	2444	---
Barium	ppm	● 4	● 4	● 6	---
Boron	ppm	● 195	206	● 2	---

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as LIEBHERR SYNTOGEAR PLUS 75W-90, however, a fluid match indicates that this fluid is SAE 75W90 Gear Oil. Please confirm the oil type and grade on your next sample. 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: CAL341CAL  
 Unique No: 5802213  
 Signed: Kevin Marson  
 Report Date: 02 Jul 2024



### Graphs

