

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 144157-1216 - Rear Differential

Sample No: LH0255452

Oil Type: LIEBHERR SYNTOGEAR PLUS 75W-90



CALGARY METALS (1985) LTD.
 3415 OGDEN RD. SE.
 CALGARY, AB
 CA T2G 4N4
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 F:



Sample Information

Sample Number	LH0255452	LH0255440	LH0225085	---
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	108	110	144	---
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Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	7	7	13	---
Sodium	ppm	2	3	2	---
Potassium	ppm	<1	3	2	---



Wear Metals

Iron	ppm	27	21	15	---
Copper	ppm	56	47	8	---
Lead	ppm	1	2	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	2	2	8	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	91	90	306	---
Magnesium	ppm	1	1	2	---
Zinc	ppm	49	43	58	---
Phosphorus	ppm	1276	1329	1619	---
Barium	ppm	<1	<1	2	---
Boron	ppm	240	248	11	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: CAL341CAL
 Unique No: 5802215
 Signed: Wes Davis
 Report Date: 02 Jul 2024



Graphs

