

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 144157-1216 - Rear Differential

Sample No: LH0255440

Oil Type: LIEBHERR SYNTOGear PLUS 75W-90



CALGARY METALS (1985) LTD.
 3415 OGDEN RD. SE.
 CALGARY, AB
 CA T2G 4N4
 Contact: Steve Goodzeck
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 T: (403)262-4542
 F:



SAMPLE INFORMATION

Sample Number	LH0255440	LH0225085	---	---
Sample Date	17 Nov 2023	15 Feb 2023	---	---
Machine Hours	2077	472	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 110	● 144	---	---
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CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	● 90	306	---	---
Magnesium	ppm	1	● 2	---	---
Zinc	ppm	● 43	● 58	---	---
Phosphorus	ppm	● 1329	● 1619	---	---
Barium	ppm	● <1	● 2	---	---
Boron	ppm	248	● 11	---	---

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: CAL341CAL
 Unique No: 5696991
 Signed: Wes Davis
 Report Date: 18 Dec 2023



GRAPHS

