

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 142304-1216 - Front Right Wheel Hub

Sample No: LH0248068

Oil Type: LIEBHERR GEAR BASIC 90 LS



PRODUITS FORESTIERS D.G. LTEE
 313 RANG ST-JOSEPH
 STE-AURELIE, QC
 CA G0M 1M0
 Contact: Roger .

T: (418)593-3547
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SAMPLE INFORMATION

Sample Number	LH0248068	LH	---	---
Sample Date	11 Oct 2023	25 Jul 2023	---	---
Machine Hours	4000	3000	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	99.3	● 180	---	---
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CONTAMINATION

Silicon	ppm	● 8	● 8	---	---
Sodium	ppm	● 7	● 8	---	---
Potassium	ppm	● <1	● 2	---	---



WEAR METALS

Iron	ppm	● 142	● 187	---	---
Copper	ppm	● 23	● 29	---	---
Lead	ppm	● 1	● 1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 2	● 2	---	---
Chromium	ppm	● <1	● 2	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	● 3	● 4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	37	● 77	---	---
Magnesium	ppm	● 1	● 2	---	---
Zinc	ppm	41	● 59	---	---
Phosphorus	ppm	● 2192	● 2329	---	---
Barium	ppm	● <1	● 0	---	---
Boron	ppm	● 3	● 4	---	---

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: PRO9STE
Unique No: 5681971
Signed: Wes Davis
Report Date: 16 Nov 2023



GRAPHS

