

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 144587-1216 - Front Right Wheel Hub

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH0250066	---	---
Sample Date	12 Dec 2023	23 Mar 2023	---	---
Machine Hours	2050	500	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 162	● 146	---	---
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 9	● 11	---	---
Sodium	ppm	● 6	● 3	---	---
Potassium	ppm	● 2	● <1	---	---

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.



WEAR METALS

Iron	ppm	● 70	● 21	---	---
Copper	ppm	● 18	● 7	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 2	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 3	● 7	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	● 2	● 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 140	● 286	---	---
Magnesium	ppm	● 1	● 2	---	---
Zinc	ppm	● 44	● 59	---	---
Phosphorus	ppm	● 1898	● 1647	---	---
Barium	ppm	● <1	● 1	---	---
Boron	ppm	● 3	● 10	---	---

Depot: IND550WIN
Unique No: 5696371
Signed: Wes Davis
Report Date: 14 Dec 2023



GRAPHS

