

LIEBHERR

CONSTRUCTION EQUIPMENT



[(353858)] LIEBHERR LH50M 082257-1203 - Rear Differential

Sample No: LH0209290

Oil Type: LIEBHERR 80W90



SAMPLE INFORMATION

Sample Number	LH0209290	LH0209292	---	---
Sample Date	20 Aug 2023	12 Aug 2021	---	---
Machine Hours	4331	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

Contact: Eric Brisebois
ericbrisebois99@gmail.com

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OIL CONDITION

Visc @ 40°C	cSt	● 176	● 161	---	---
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CONTAMINATION

Silicon	ppm	● 7	● 14	---	---
Sodium	ppm	● 2	● 2	---	---
Potassium	ppm	● 0	● 1	---	---



WEAR METALS

Iron	ppm	● 53	● 37	---	---
Copper	ppm	● 43	● 32	---	---
Lead	ppm	● 1	● <1	---	---
Tin	ppm	● 2	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● 0	● <1	---	---
Molybdenum	ppm	0	● 5	---	---
Nickel	ppm	● 1	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	4	● 1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	12	● 200	---	---
Magnesium	ppm	1	● 1	---	---
Zinc	ppm	62	● 58	---	---
Phosphorus	ppm	2300	● 1714	---	---
Barium	ppm	<1	● 2	---	---
Boron	ppm	4	● 6	---	---

Diagnosis

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Tin ppm levels are abnormal. Moderate concentration of visible metal present. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HUBBOI
Unique No: 5659417
Signed: Kevin Marson
Report Date: 22 Oct 2023



GRAPHS

