

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131191 - Front Differential

Sample No: LH0227815

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0227815	LH0227803	---	---
Sample Date	12 Oct 2023	03 Feb 2023	---	---
Machine Hours	1905	1117	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

KOPPERS RECOVERY RESOURCES

17961 US HIGHWAY 41
L'ANSE, MI
US 49946
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 133	● 144	---	---
-------------	-----	-------	-------	-----	-----

T:
F:



CONTAMINATION

Silicon	ppm	● <1	● 1	---	---
Sodium	ppm	● <1	● 0	---	---
Potassium	ppm	● <1	● 4	---	---

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	● 2	● 3	---	---
Copper	ppm	● 5	● 5	---	---
Lead	ppm	● 0	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 0	● 0	---	---
Chromium	ppm	● 0	● 0	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● 0	● 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	● <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 26	● 63	---	---
Magnesium	ppm	● 6	● 3	---	---
Zinc	ppm	● 23	● 35	---	---
Phosphorus	ppm	● 840	● 641	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 7	● 6	---	---

Depot: KOPLAN
Unique No: 10701549
Signed: Doug Bogart
Report Date: 20 Oct 2023



GRAPHS

