

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131191 - Front Right Wheel Hub

Sample No: LH0227823

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0227823	LH0227811	---	---
Sample Date	02 Oct 2023	08 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	132	147	---	---
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T:
F:



CONTAMINATION

Silicon	ppm	10	16	---	---
Sodium	ppm	7	2	---	---
Potassium	ppm	2	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	73	86	---	---
Copper	ppm	9	8	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	<1	1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	50	57	---	---
Magnesium	ppm	6	2	---	---
Zinc	ppm	27	22	---	---
Phosphorus	ppm	857	823	---	---
Barium	ppm	0	0	---	---
Boron	ppm	1	<1	---	---

Depot: KOPLAN
Unique No: 10701565
Signed: Doug Bogart
Report Date: 20 Oct 2023



GRAPHS

