

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131191 - Swing Drive

Sample No: LH0227820

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0227820	LH0227808	---	---
Sample Date	12 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	150	152	---	---
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T:
F:



CONTAMINATION

Silicon	ppm	<1	1	---	---
Sodium	ppm	4	0	---	---
Potassium	ppm	3	5	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	650	493	---	---
Copper	ppm	20	15	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	4	3	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	2	0	---	---
Manganese	ppm	5	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	18	20	---	---
Magnesium	ppm	2	2	---	---
Zinc	ppm	26	16	---	---
Phosphorus	ppm	996	1010	---	---
Barium	ppm	0	0	---	---
Boron	ppm	2	5	---	---

Depot: KOPLAN
Unique No: 10701567
Signed: Don Baldrige
Report Date: 21 Oct 2023



GRAPHS

