

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 156991 - Swing Drive

Sample No: LH0285074

Oil Type: GEAR OIL SAE 80W90



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
 Contact: Steve Lehto
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SAMPLE INFORMATION

Sample Number	LH0285074	---	---	---
Sample Date	04 Mar 2024	---	---	---
Machine Hours	1005	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 173	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 13	---	---	---
Sodium	ppm	● 3	---	---	---
Potassium	ppm	● 2	---	---	---



WEAR METALS

PQ		● 456	---	---	---
Iron	ppm	● 869	---	---	---
Copper	ppm	● 256	---	---	---
Lead	ppm	● 7	---	---	---
Tin	ppm	● 25	---	---	---
Aluminum	ppm	● 4	---	---	---
Chromium	ppm	● 3	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 8	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 26	---	---	---
Magnesium	ppm	● 1	---	---	---
Zinc	ppm	● 35	---	---	---
Phosphorus	ppm	● 2230	---	---	---
Barium	ppm	● 12	---	---	---
Boron	ppm	● 22	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm. Lead ppm levels are abnormal. Bearing 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: LIEMIS
 Unique No: 5737077
 Signed: Kevin Marson
 Report Date: 06 Mar 2024



GRAPHS

