

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 147180 - Diesel Engine

Sample No: LH0274809  
 Oil Type: NOT GIVEN



**LIEBHERR CANADA LTD.**  
 1015 SUTTON DRIVE  
 BURLINGTON, ON  
 CA L7L 5Z8  
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#### SAMPLE INFORMATION

Sample Number	LH0274809	---	---	---
Sample Date	04 Oct 2023	---	---	---
Machine Hours	512	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	11.9	---	---	---
Oxidation (PA)	%	214	---	---	---



#### CONTAMINATION

Soot %	%	0	---	---	---
Nitration (PA)	%	104	---	---	---
Sulfation (PA)	%	114	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.3	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	3	---	---	---
Potassium	ppm	2	---	---	---



#### WEAR METALS

Iron	ppm	11	---	---	---
Copper	ppm	138	---	---	---
Lead	ppm	7	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	4	---	---	---
Chromium	ppm	1	---	---	---
Molybdenum	ppm	47	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



#### ADDITIVES

Calcium	ppm	1379	---	---	---
Magnesium	ppm	922	---	---	---
Zinc	ppm	826	---	---	---
Phosphorus	ppm	663	---	---	---
Barium	ppm	36	---	---	---
Boron	ppm	69	---	---	---

#### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Metal levels are typical for a new component breaking in. Light fuel dilution occurring. No other contaminants were detected in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS  
 Unique No: 5656180  
 Signed: Kevin Marson  
 Report Date: 06 Oct 2023



### GRAPHS

