

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 146891-1217 - Diesel Engine

Sample No: LH0271810

Oil Type: PETRO CANADA 10W40



**RICHMOND STEEL RECYCLING**  
 11760 MITCHELL ROAD  
 RICHMOND, BC  
 CA V6V 1V8  
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 T:  
 F: (604)324-8617



#### Sample Information

Sample Number	LH0271810	LH0281173	---	---
Sample Date	24 May 2024	22 Dec 2023	---	---
Machine Hours	1000	519	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



#### Oil Condition

Visc @ 100°C	cSt	13.0	11.7	---	---
Oxidation (PA)	%	89	202	---	---



#### Contamination

Water	%	0.094	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	78	99	---	---
Sulfation (PA)	%	63	109	---	---
Glycol	%	0.0	NEG	---	---
Fuel	%	<1.0	2.3	---	---
Silicon	ppm	6	8	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	<1	4	---	---



#### Wear Metals

Iron	ppm	7	14	---	---
Copper	ppm	50	214	---	---
Lead	ppm	2	8	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	2	5	---	---
Chromium	ppm	<1	2	---	---
Molybdenum	ppm	56	47	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	1118	1321	---	---
Magnesium	ppm	940	913	---	---
Zinc	ppm	1112	869	---	---
Phosphorus	ppm	887	705	---	---
Barium	ppm	4	23	---	---
Boron	ppm	8	66	---	---

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RIC117RIC  
 Unique No: 5800045  
 Signed: Wes Davis  
 Report Date: 20 Jun 2024



### Graphs

