

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 078235 - Diesel Engine

Sample No: LH0280876

Oil Type: PETRO CANADA SUPREME 5W30



#### SAMPLE INFORMATION

Sample Number	LH0280876	LH0269587	LH0260358	---
Sample Date	13 Jan 2024	01 Sep 2023	14 Apr 2023	---
Machine Hours	12657	0	11395	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

**American Iron and Metal**  
 131 Toombs St  
 Moncton, NB  
 CA E1A 3A5  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	11.8	11.3	12.5	---
Oxidation (PA)	%	99	81	92	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	1.2	0.9	1	---
Nitration (PA)	%	115	102	113	---
Sulfation (PA)	%	74	62	68	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	14	7	8	---
Sodium	ppm	4	5	6	---
Potassium	ppm	<1	<1	1	---

#### 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	25	17	22	---
Copper	ppm	3	3	5	---
Lead	ppm	1	1	2	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	5	4	6	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	58	62	64	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	808	801	904	---
Magnesium	ppm	1091	1122	1131	---
Zinc	ppm	1164	1178	1235	---
Phosphorus	ppm	1010	1051	1082	---
Barium	ppm	0	0	0	---
Boron	ppm	10	12	13	---

Depot: AME131MON  
 Unique No: 5724701  
 Signed: Wes Davis  
 Report Date: 14 Feb 2024



### GRAPHS

