

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 145461-1216 - Diesel Engine

Sample No: LH0255613

Oil Type: DIESEL ENGINE OIL SAE 10W30



**GENERAL RECYCLING INDUSTRIES LTD.**  
 4120 - 84 AVENUE  
 EDMONTON, AB  
 CA T6B 3H3  
 Contact: Corey MacKay  
 cmackay@trailco.ca  
 T: (587)926-1610  
 F: (780)485-4294



#### SAMPLE INFORMATION

Sample Number	LH0255613	LH0255604	LH0255601	---
Sample Date	14 Sep 2023	26 Jun 2023	04 May 2023	---
Machine Hours	1812	1086	537	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



#### OIL CONDITION

Visc @ 100°C	cSt	10.8	11.3	11.8	---
Oxidation (PA)	%	78	92	200	---



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	68	68	104	---
Sulfation (PA)	%	58	67	109	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.7	1.5	---
Silicon	ppm	7	4	8	---
Sodium	ppm	2	2	2	---
Potassium	ppm	0	<1	4	---



#### WEAR METALS

Iron	ppm	5	5	11	---
Copper	ppm	42	101	240	---
Lead	ppm	2	3	8	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	1	<1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	55	54	46	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	<1	0	0	---
Manganese	ppm	0	<1	1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	1002	1058	1317	---
Magnesium	ppm	940	938	924	---
Zinc	ppm	1172	1125	876	---
Phosphorus	ppm	1005	1004	773	---
Barium	ppm	2	6	30	---
Boron	ppm	4	16	100	---

#### 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.

Depot: GEN156EDM  
 Unique No: 5684923  
 Signed: Wes Davis  
 Report Date: 30 Nov 2023



### GRAPHS

