

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 138272-1216 - Diesel Engine

Sample No: LH0284052

Oil Type: SAE 10W40



**RICHMOND STEEL RECYCLING**  
 11760 MITCHELL ROAD  
 RICHMOND, BC  
 CA V6V 1V8  
 Contact: Aaron Kaetler  
 AKaetler@richmondsteel.ca  
 T:  
 F: (604)324-8617



#### SAMPLE INFORMATION

Sample Number	LH0284052	LH0240715	---	---
Sample Date	01 Feb 2024	30 Nov 2022	---	---
Machine Hours	3574	1428	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	12.8	11.2	---	---
Oxidation (PA)	%	70	228	---	---



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	74	119	---	---
Sulfation (PA)	%	55	115	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	2.3	---	---
Silicon	ppm	6	11	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	<1	3	---	---



#### WEAR METALS

Iron	ppm	4	19	---	---
Copper	ppm	2	126	---	---
Lead	ppm	<1	10	---	---
Tin	ppm	0	2	---	---
Aluminum	ppm	2	3	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	59	46	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	1033	1330	---	---
Magnesium	ppm	956	902	---	---
Zinc	ppm	1196	873	---	---
Phosphorus	ppm	1018	734	---	---
Barium	ppm	0	31	---	---
Boron	ppm	2	40	---	---

#### 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: RIC117RIC  
 Unique No: 5724715  
 Signed: Wes Davis  
 Report Date: 14 Feb 2024



### GRAPHS

