

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 084007 - Diesel Engine

Sample No: LH0242948

Oil Type: NOT GIVEN



**LES CHARGEMENTS ERIC TURPIN**  
 1170 CHEMIN DES VILLAS  
 MONT-LAURIER, QC  
 CA J9L 3G7  
 Contact: ERIC TURPIN

T: (819)660-9886  
 F:



#### SAMPLE INFORMATION

Sample Number	LH0242948	LH0107111	LH0107119	---
Sample Date	05 Jan 2023	27 Dec 2018	10 Dec 2018	---
Machine Hours	17222	7413	7412	---
Oil Hours	0	0	0	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	SEVERE	ATTENTION	SEVERE	---



#### OIL CONDITION

Visc @ 100°C	cSt	7	13.7	3.5	---
Oxidation (PA)	%	51	52	43	---



#### CONTAMINATION

Soot %	%	0	0	0.4	---
Nitration (PA)	%	73	38	70	---
Sulfation (PA)	%	50	64	45	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	24.4	2.6	40.4	---
Silicon	ppm	4	5	8	---
Sodium	ppm	3	4	2	---
Potassium	ppm	<1	3	<1	---



#### WEAR METALS

Iron	ppm	7	68	33	---
Copper	ppm	2	2	8	---
Lead	ppm	1	<1	2	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	3	3	7	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	61	<1	34	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	1574	194	456	---
Magnesium	ppm	105	4	611	---
Zinc	ppm	875	105	681	---
Phosphorus	ppm	852	1422	546	---
Barium	ppm	0	2	0	---
Boron	ppm	49	1	11	---

#### Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: LES11DES  
 Unique No: 5512610  
 Signed: Wes Davis  
 Report Date: 09 Jan 2023



### GRAPHS

