

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 139284-1253 - Diesel Engine

Sample No: LH0239949

Oil Type: SHELL ROTELLA T4 10W40



**HUBERT & FILS**  
 474 ROUTE 105  
 BOIS-FRANC, QC  
 CA J9E 3A9  
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#### SAMPLE INFORMATION

Sample Number	LH0239949	LH0241859	---	---
Sample Date	04 Sep 2023	06 Jul 2023	---	---
Machine Hours	2265	1668	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	13.5	13.4	---	---
Oxidation (PA)	%	75	77	---	---



#### CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	73	72	---	---
Sulfation (PA)	%	62	63	---	---
Glycol	%	0.0	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	11	3	---	---



#### WEAR METALS

Iron	ppm	4	4	---	---
Copper	ppm	2	6	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	<1	5	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

Calcium	ppm	2222	1973	---	---
Magnesium	ppm	25	106	---	---
Zinc	ppm	1156	1100	---	---
Phosphorus	ppm	957	944	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	95	94	---	---

#### 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: HUBBOI  
 Unique No: 5659296  
 Signed: Wes Davis  
 Report Date: 19 Oct 2023



### GRAPHS

