

LIEBHERR

CONSTRUCTION EQUIPMENT



[(353219)] LIEBHERR LH50M 129342-1216 - Diesel Engine

Sample No: LH0208191

Oil Type: SHELL ROTELLA T4 15W40



HUBERT & FILS
 474 ROUTE 105
 BOIS-FRANC, QC
 CA J9E 3A9
 Contact: Eric Brisebois
 ericbrisebois99@gmail.com
 T:
 F:



SAMPLE INFORMATION

Sample Number	LH0208191	LH0208219	---	---
Sample Date	17 Aug 2023	27 Nov 2021	---	---
Machine Hours	10384	2368	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	14.0	12.9	---	---
Oxidation (PA)	%	72	72	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	72	54	---	---
Sulfation (PA)	%	60	55	---	---
Glycol	%	0.0	0.0	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	6	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	6	7	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	2221	1993	---	---
Magnesium	ppm	17	39	---	---
Zinc	ppm	1151	1118	---	---
Phosphorus	ppm	959	1035	---	---
Barium	ppm	<1	<1	---	---
Boron	ppm	106	45	---	---

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: 5659295
 Signed: Wes Davis
 Report Date: 19 Oct 2023



GRAPHS

