

LIEBHERR

CONSTRUCTION EQUIPMENT



[(364849)] LIEBHERR R934 053396-1487 - Diesel Engine

Sample No: LH0219927

Oil Type: SHELL ROTELLA T6 5W40



Sample Information

Sample Number	LH0219927	LH	---	---
Sample Date	15 Mar 2024	09 Feb 2022	---	---
Machine Hours	1995	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

HUBERT & FILS

474 ROUTE 105
BOIS-FRANC, QC
CA J9E 3A9

Contact: Eric Brisebois

ericbrisebois99@gmail.com

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Oil Condition

Visc @ 100°C	cSt	13.7	12.2	---	---
Oxidation (PA)	%	77	59	---	---



Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0	0	---	---
Nitration (PA)	%	82	42	---	---
Sulfation (PA)	%	66	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.2	---	---
Silicon	ppm	8	51	---	---
Sodium	ppm	4	5	---	---
Potassium	ppm	3	3	---	---

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.



Wear Metals

Iron	ppm	13	32	---	---
Copper	ppm	38	42	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	2	4	---	---
Chromium	ppm	0	1	---	---
Molybdenum	ppm	23	40	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	4	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	2230	1799	---	---
Magnesium	ppm	77	816	---	---
Zinc	ppm	1217	1013	---	---
Phosphorus	ppm	985	866	---	---
Barium	ppm	0	4	---	---
Boron	ppm	77	114	---	---

Depot: HUBBOI

Unique No: 5750296

Signed: Wes Davis

Report Date: 28 Mar 2024



Graphs

