

LIEBHERR

CONSTRUCTION EQUIPMENT



[SUBLATOS] LIEBHERR R934 54888 - Diesel Engine

Sample No: LH0225121

Oil Type: PETRO CANADA 10W40



LIEBHERR CANADA LTD.
 10374 267 ST.
 ACHESON, AB
 CA T7X 6A2
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SAMPLE INFORMATION

Sample Number	LH0225121	LH0224993	---	---
Sample Date	29 May 2023	15 Mar 2023	---	---
Machine Hours	971	577	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	12.0	11.8	---	---
Oxidation (PA)	%	99	203	---	---



CONTAMINATION

Soot %	%	0	0	---	---
Nitration (PA)	%	89	103	---	---
Sulfation (PA)	%	65	114	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1	---	---
Silicon	ppm	8	10	---	---
Sodium	ppm	5	3	---	---
Potassium	ppm	0	2	---	---



WEAR METALS

Iron	ppm	7	13	---	---
Copper	ppm	102	265	---	---
Lead	ppm	4	9	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	1	3	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	58	47	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	923	1365	---	---
Magnesium	ppm	1145	948	---	---
Zinc	ppm	1249	886	---	---
Phosphorus	ppm	1014	797	---	---
Barium	ppm	3	26	---	---
Boron	ppm	37	89	---	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIESPR
 Unique No: 5655123
 Signed: Kevin Marson
 Report Date: 02 Oct 2023



GRAPHS

