

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(363347)] LIEBHERR R934 054150-1550 - Swing Drive

Sample No: LH0218932

Oil Type: CASTROL SYNTEC FULL SYNTHETIC 75W90



#### Sample Information

Sample Number	LH0218932	LH0218925	---	---
Sample Date	09 Apr 2024	13 Jul 2023	---	---
Machine Hours	1485	1040	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

**KARSON SAND & GRAVEL INC**  
 3733 CARP ROAD  
 CARP, ON  
 CA K0A 1L0  
 Contact: Richard Simard  
 richard.simardksg@gmail.com  
 T: (613)407-0460  
 F:



#### Oil Condition

Visc @ 40°C	cSt	180	● 200	---	---
-------------	-----	-----	-------	-----	-----



#### Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 1	● 3	---	---
Sodium	ppm	● 2	● 3	---	---
Potassium	ppm	● <1	● 1	---	---



#### Wear Metals

PQ		---	● 0	---	---
Iron	ppm	● 701	● 904	---	---
Copper	ppm	● <1	● 1	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● 11	● 14	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 7	● 9	---	---
Vanadium	ppm	0	0	---	---



#### Additives

Calcium	ppm	● 11	● 47	---	---
Magnesium	ppm	● <1	● 1	---	---
Zinc	ppm	● 4	● 20	---	---
Phosphorus	ppm	796	● 1591	---	---
Barium	ppm	● 1	● 8	---	---
Boron	ppm	2	● 2	---	---

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: KAR373CAR  
 Unique No: 5776170  
 Signed: Kevin Marson  
 Report Date: 13 May 2024



### Graphs

