

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R934C 037803-027 - Swing Drive

Sample No: LH

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### Sample Information

Sample Number	LH	LH0265733	LH	LH
Sample Date	15 Apr 2024	31 Jul 2023	28 Apr 2023	21 Jul 2022
Machine Hours	22505	20960	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	ABNORMAL

**Urban Mine**  
72 Rothwell Rd.  
Winnipeg, MB  
CA R3P 2H7  
Contact: SERVICE



#### Oil Condition

Visc @ 40°C	cSt	157	104	99.8	105
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T: (204)774-0192  
F:



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	2	5	4
Sodium	ppm	<1	<1	<1	1
Potassium	ppm	0	<1	1	<1

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Copper and tin ppm levels are noted. All other 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.



#### Wear Metals

PQ		---	---	0	---
Iron	ppm	217	341	1459	1240
Copper	ppm	251	42	154	187
Lead	ppm	6	1	4	9
Tin	ppm	15	<1	3	4
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	5	15	13
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	2	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	3	12	12
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	4	10	10	10
Magnesium	ppm	2	<1	<1	<1
Zinc	ppm	16	11	20	25
Phosphorus	ppm	2080	1237	1303	1249
Barium	ppm	0	0	0	0
Boron	ppm	94	216	200	106

Depot: URBWIN  
Unique No: 5763438  
Signed: Kevin Marson  
Report Date: 19 Apr 2024



### Graphs

