

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R918LC 047 212-1721- Left Final Drive

Sample No: LH0284033

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0284033	LH0192469	LH0185906	---
Sample Date	01 Mar 2024	10 Sep 2021	10 Feb 2021	---
Machine Hours	3066	1047	491	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

**WESTERRA ENTERPRISES INC.**  
 33171 2ND AVENUE  
 MISSION, BC  
 CA V2V 6T8  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	96.2	192	196	---
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	554	37	71	---
Sodium	ppm	43	6	11	---
Potassium	ppm	29	3	8	---

#### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



#### WEAR METALS

PQ		113	---	---	---
Iron	ppm	1199	90	150	---
Copper	ppm	1	<1	<1	---
Lead	ppm	<1	<1	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	173	10	18	---
Chromium	ppm	14	1	2	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	2	<1	<1	---
Titanium	ppm	8	<1	1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	11	<1	2	---
Vanadium	ppm	0	0	<1	---



#### ADDITIVES

Calcium	ppm	165	14	29	---
Magnesium	ppm	41	3	5	---
Zinc	ppm	32	15	18	---
Phosphorus	ppm	1479	2380	2273	---
Barium	ppm	3	3	12	---
Boron	ppm	189	3	6	---

Depot: SUMMIS  
 Unique No: 5746346  
 Signed: Kevin Marson  
 Report Date: 12 Mar 2024



### GRAPHS

