

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R918LC 047212-1721- Right Final Drive

Sample No: LH0284119

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

Sample Number	LH0284119	LH0192468	LH0185907	---
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	95.5	191	194	---
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	849	22	47	---
Sodium	ppm	67	5	8	---
Potassium	ppm	41	2	5	---



WEAR METALS

PQ		108	---	---	---
Iron	ppm	1123	69	136	---
Copper	ppm	1	<1	<1	---
Lead	ppm	<1	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	264	6	12	---
Chromium	ppm	12	<1	2	---
Molybdenum	ppm	<1	0	<1	---
Nickel	ppm	2	<1	<1	---
Titanium	ppm	13	<1	<1	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	11	<1	1	---
Vanadium	ppm	0	0	<1	---

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.



ADDITIVES

Calcium	ppm	244	10	29	---
Magnesium	ppm	64	1	4	---
Zinc	ppm	29	12	17	---
Phosphorus	ppm	1476	2351	2277	---
Barium	ppm	3	2	11	---
Boron	ppm	209	3	6	---

Depot: SUMMIS
 Unique No: 5746345
 Signed: Kevin Marson
 Report Date: 12 Mar 2024



GRAPHS

