

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(355228)] LIEBHERR LH60M 114198-1217 - Front Differential

Sample No: LH0225133

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



#### SAMPLE INFORMATION

Sample Number	LH0225133	LH0269779	LH0225072	LH0224841
Sample Date	07 Dec 2023	22 Sep 2023	10 Feb 2023	18 Nov 2022
Machine Hours	8004	7355	4980	4073
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**AltaSteel**  
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#### OIL CONDITION

Visc @ 40°C	cSt	103	106	99.4	105



#### CONTAMINATION

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



#### WEAR METALS

Iron	ppm	2	4	5	4
Copper	ppm	1	6	4	9
Lead	ppm	0	<1	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	0	<1	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	37	6	13	8
Magnesium	ppm	<1	1	2	2
Zinc	ppm	25	12	14	14
Phosphorus	ppm	1222	1251	1338	1063
Barium	ppm	0	<1	0	0
Boron	ppm	303	315	304	187

#### 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. The condition of the oil is acceptable for the time in service.

**Depot:** ALT940EDM  
**Unique No:** 5708326  
**Signed:** Kevin Marson  
**Report Date:** 09 Jan 2024



### GRAPHS

