



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH50M 150728-1216**  
Component  
**Rear Right Wheel Hub**  
Fluid  
**PETRO CANADA TRAXON SYNTHETIC 75W90 (4 LTR)**

### RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0280931</b>	LH0271873	LH0242076
Sample Date		Client Info		<b>29 Apr 2024</b>	09 Feb 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>1514</b>	1066	500
Oil Age	hrs	Client Info		<b>488</b>	0	500
Filter Age	hrs	Client Info		<b>488</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>325	<b>18</b>	24	3
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>75	<b>27</b>	23	2
Tin	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

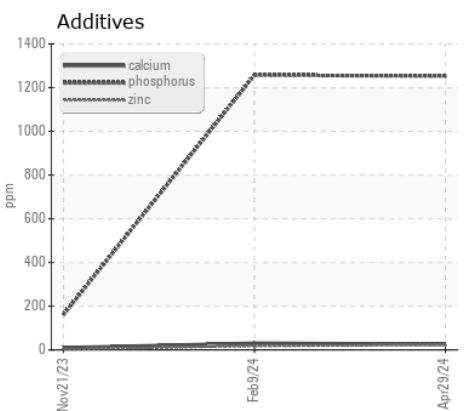
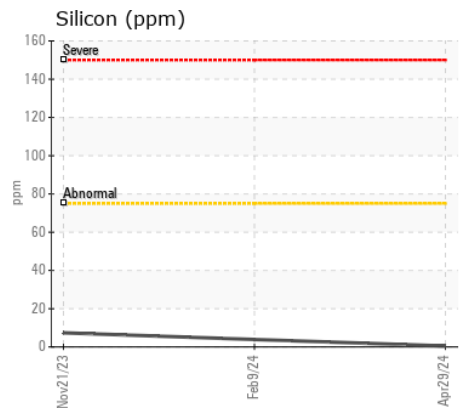
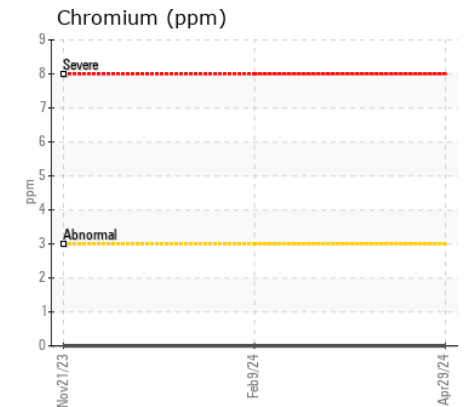
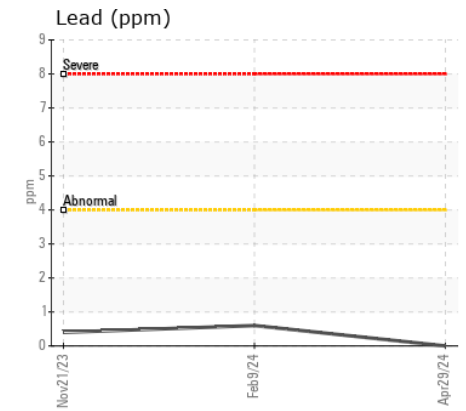
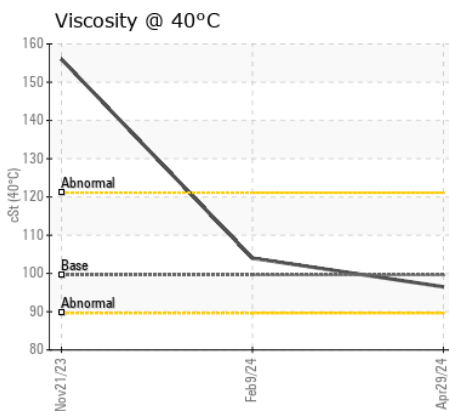
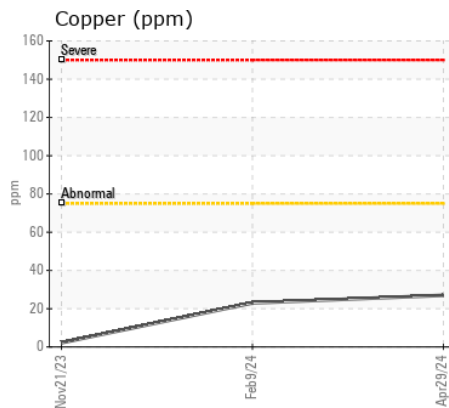
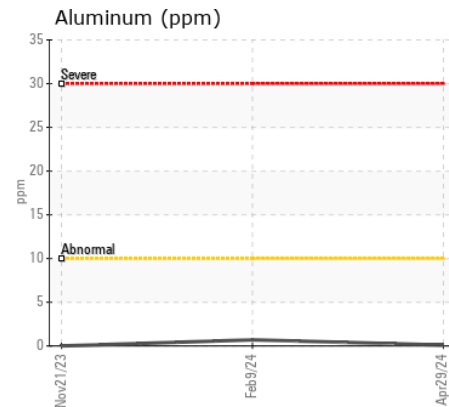
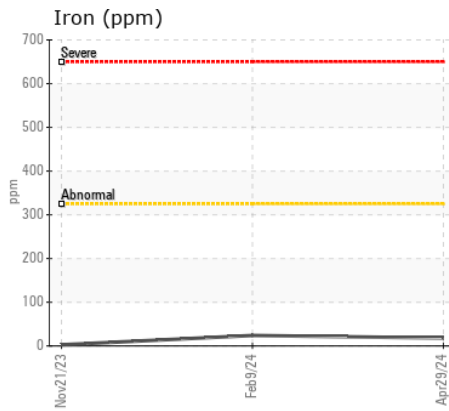
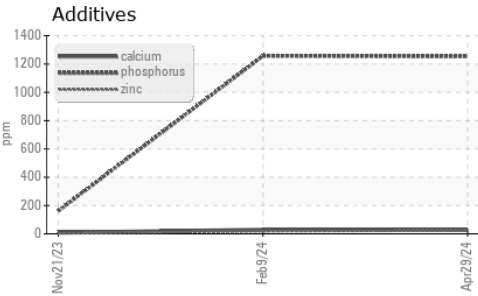
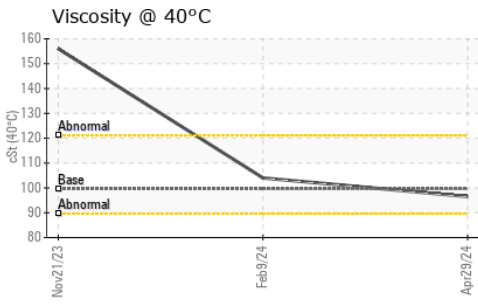
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	4	7
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	1	1
Boron	ppm	ASTM D5185(m)	328	<b>300</b>	234	4
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	7	<b>26</b>	31	10
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1253</b>	1257	161
Zinc	ppm	ASTM D5185(m)	3	<b>22</b>	18	2
Sulfur	ppm	ASTM D5185(m)	17909	<b>20710</b>	19636	2041
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>96.5</b>	104	156



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0280931 **Received** : 06 May 2024  
**Lab Number** : 02633624 **Tested** : 06 May 2024  
**Unique Number** : 5774777 **Diagnosed** : 06 May 2024 - Wes Davis  
**Test Package** : MOB 1

**ABC RECYCLING**  
 750C JACKSON RD  
 NANAIMO, BC  
 CA V9X 1J2

Contact: Jordie Richmond  
 jordie.richmond@abcrcycling.com  
 T: (250)202-8235  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.