



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 084832-1203**

Component  
**Front Right Wheel Hub**

Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (4 GAL)**

### 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>LH0281236</b>	LH0259862	LH0221724
Sample Date		Client Info		<b>23 Apr 2024</b>	02 May 2023	15 Dec 2022
Machine Age	hrs	Client Info		<b>19219</b>	18000	16500
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>325	<b>195</b>	4	▲ 695
Chromium	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	▲ 5
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>75	<b>4</b>	1	11
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	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	NONE

### CONTAMINATION

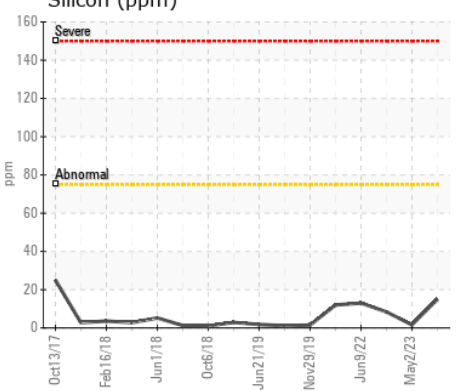
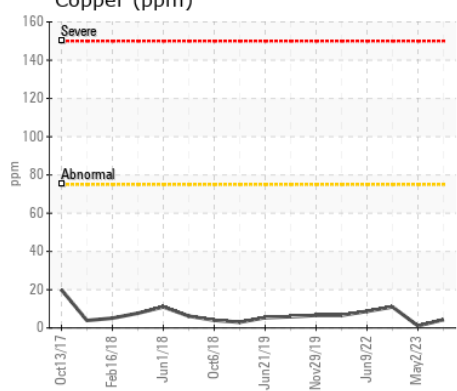
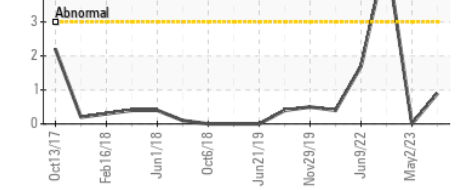
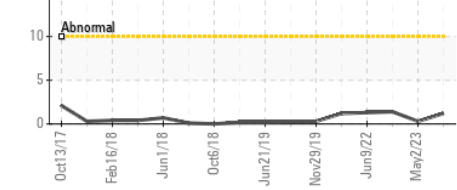
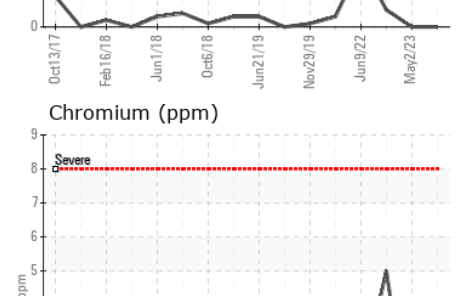
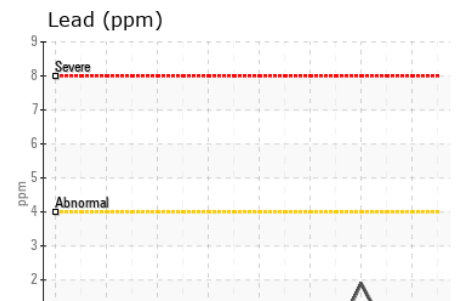
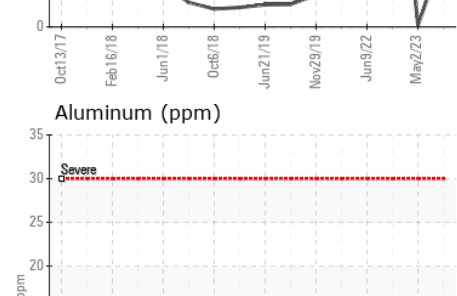
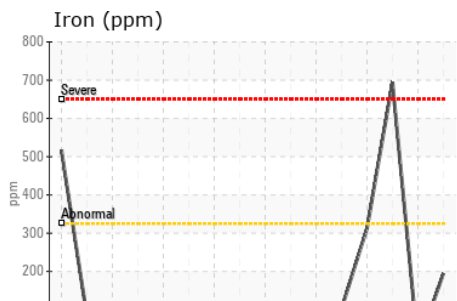
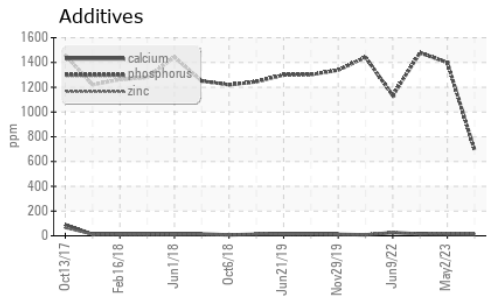
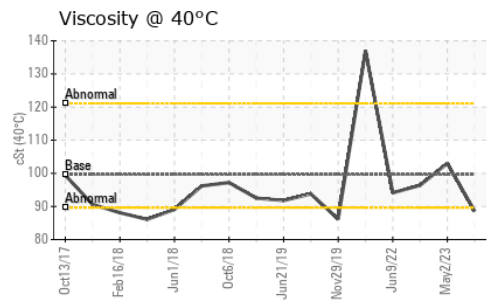
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>15</b>	2	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
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	7
Boron	ppm	ASTM D5185(m)	328	<b>85</b>	309	173
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	0	6
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	5	2
Calcium	ppm	ASTM D5185(m)	7	<b>11</b>	13	15
Phosphorus	ppm	ASTM D5185(m)	1145	<b>691</b>	1400	1479
Zinc	ppm	ASTM D5185(m)	3	<b>17</b>	17	13
Sulfur	ppm	ASTM D5185(m)	17909	<b>17832</b>	21566	24050
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>88.6</b>	103	96.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281236  
**Lab Number** : 02635042  
**Unique Number** : 5776195  
**Test Package** : MOB 1  
**Received** : 13 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 13 May 2024 - Wes Davis

**Eacom Timber Corporation**  
 100 Old Nairn Centre Road  
 Nairn Centre, ON  
 CA P0M 2L0  
 Contact: Service Manager

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.

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F: