



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(359465)**  
Machine Id  
**LIEBHERR L556 064990-1757**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (35 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>LH0250856</b>	LH0276893	LH0250687
Sample Date		Client Info		<b>11 Jan 2024</b>	24 Oct 2023	26 Jul 2023
Machine Age	hrs	Client Info		<b>9970</b>	9023	8000
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	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1000	<b>72</b>	51	31
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>11</b>	16	14
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	VLITE

### CONTAMINATION

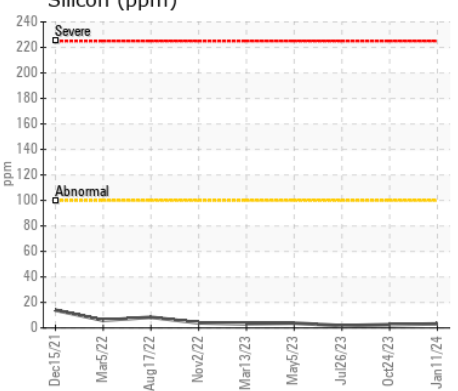
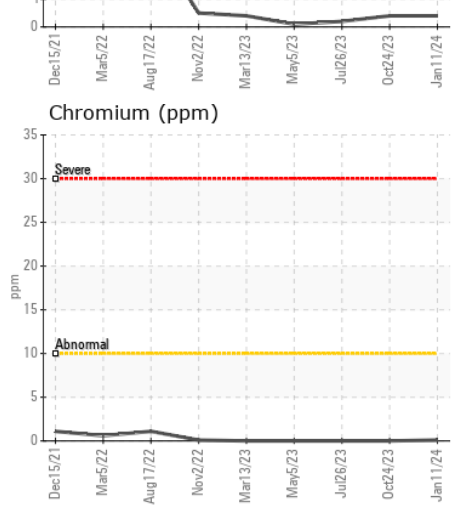
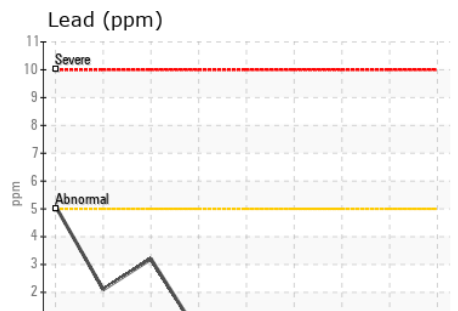
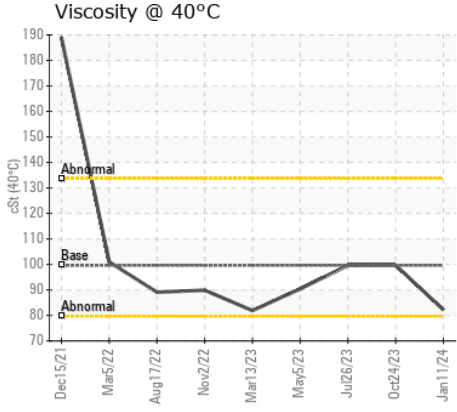
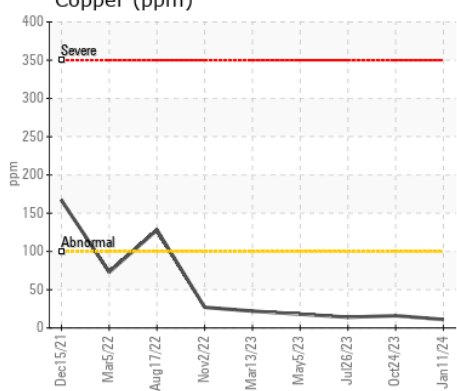
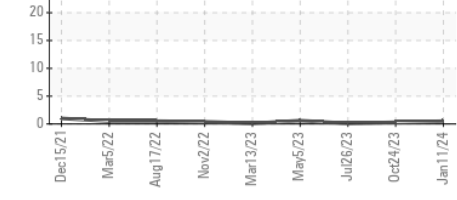
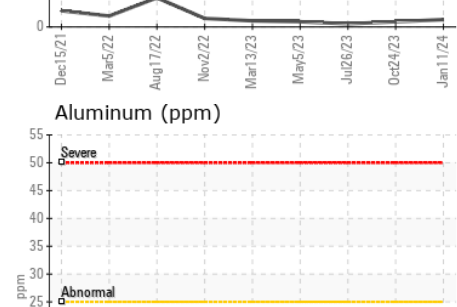
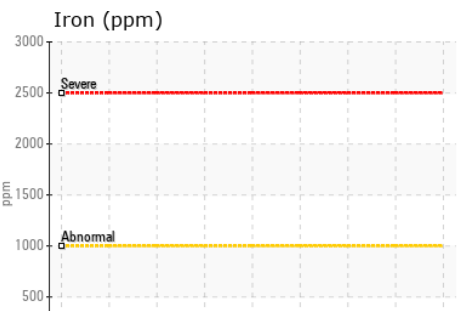
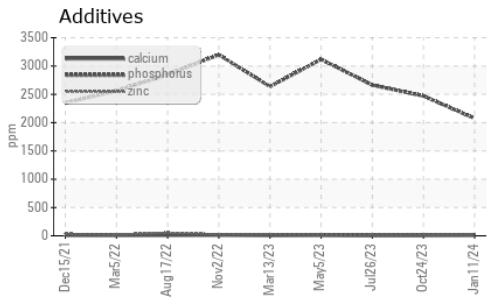
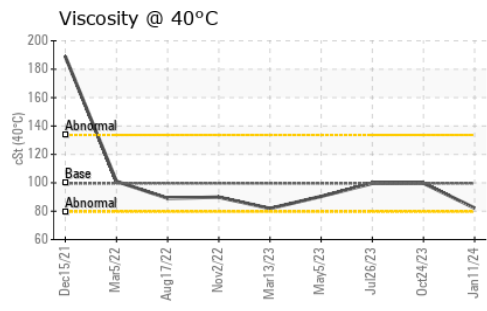
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>3</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	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*	>.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>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185(m)	328	<b>49</b>	302	268
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	7	<b>7</b>	4	4
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2074</b>	2471	2665
Zinc	ppm	ASTM D5185(m)	3	<b>22</b>	13	14
Sulfur	ppm	ASTM D5185(m)	17909	<b>16320</b>	19939	20860
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>82.2</b>	99.7	99.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0250856 **Received** : 01 Mar 2024  
**Lab Number** : 02619362 **Tested** : 01 Mar 2024  
**Unique Number** : 5736472 **Diagnosed** : 01 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

**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: