



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L556 053602-1484**

Component  
**Front Differential**

Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- 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>LH0278833</b>	LH0237708	LH0270375
Sample Date		Client Info		<b>11 Jan 2024</b>	13 Oct 2023	14 Jul 2023
Machine Age	hrs	Client Info		<b>7741</b>	7226	6154
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>None</b>	None	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1000	<b>239</b>	236	471
Chromium	ppm	ASTM D5185(m)	>10	<b>1</b>	2	3
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>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185(m)	>100	<b>35</b>	23	71
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>VLITE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE

### CONTAMINATION

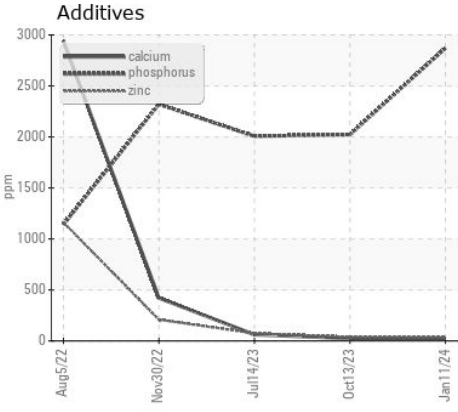
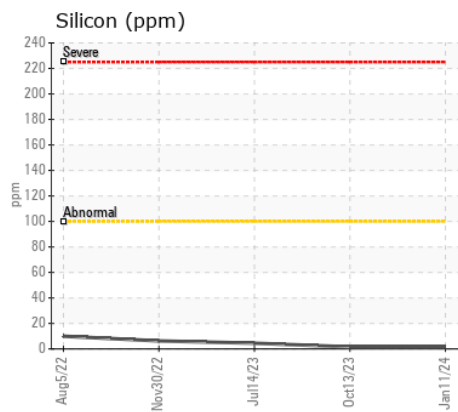
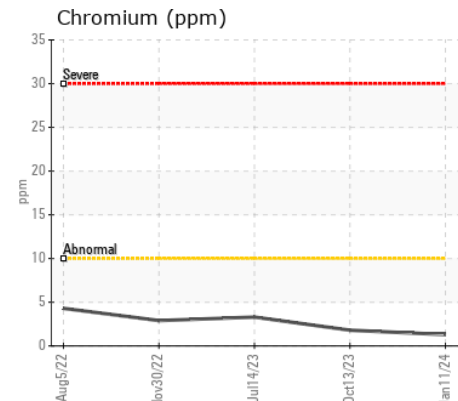
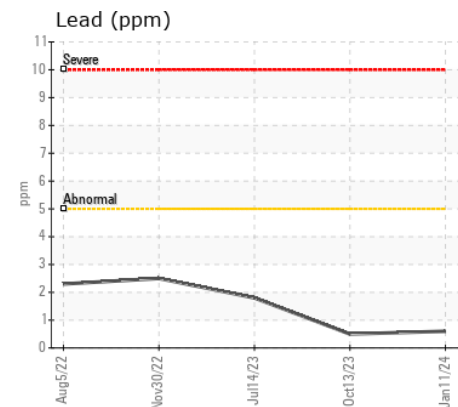
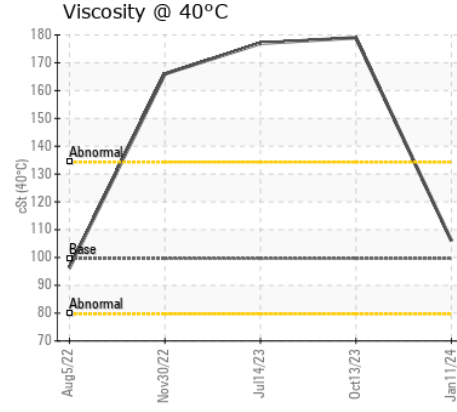
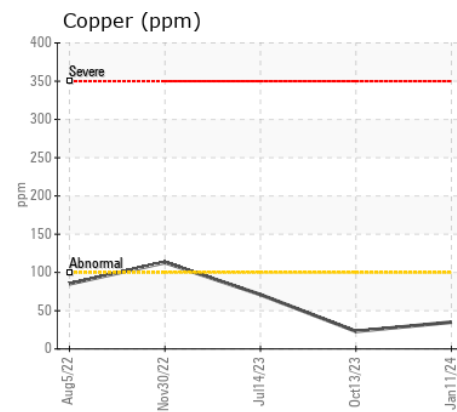
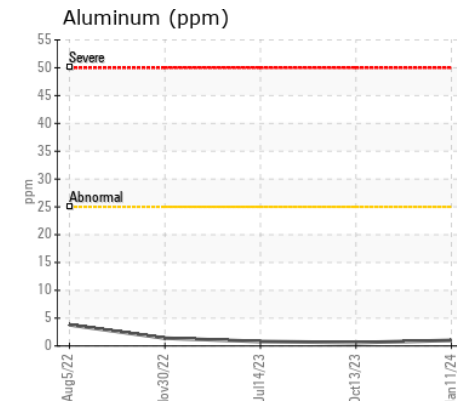
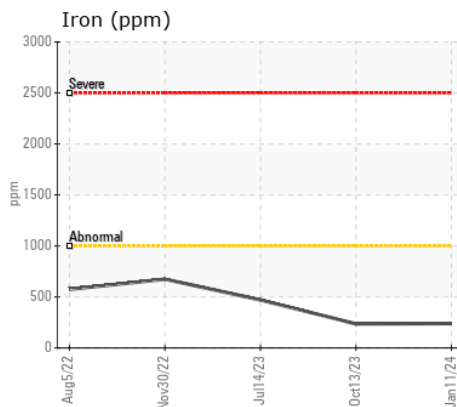
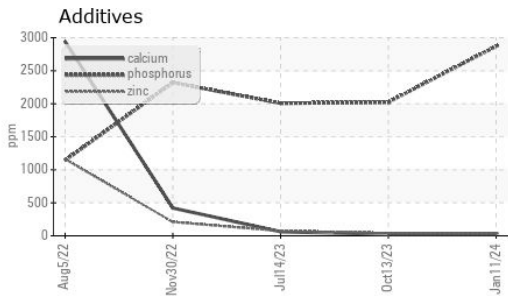
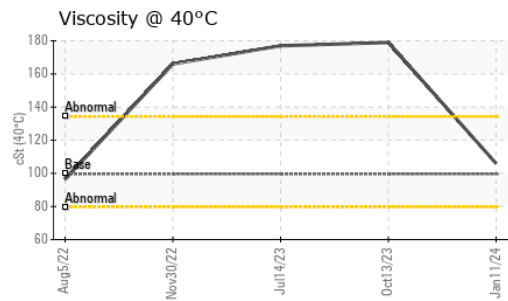
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	<b>2</b>	2	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	0	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	LIGHT	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*	>.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>1</b>	1	1
Boron	ppm	ASTM D5185(m)	328	<b>71</b>	2	6
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	4	18
Manganese	ppm	ASTM D5185(m)		<b>2</b>	4	5
Magnesium	ppm	ASTM D5185(m)	1	<b>2</b>	1	2
Calcium	ppm	ASTM D5185(m)	7	<b>24</b>	24	62
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2870</b>	2023	2007
Zinc	ppm	ASTM D5185(m)	3	<b>36</b>	40	74
Sulfur	ppm	ASTM D5185(m)	17909	<b>21277</b>	25793	24728
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>106</b>	179	177



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **THOMAS CAVANAGH CONSTRUCTION LTD**  
**Sample No.** : LH0278833 **Received** : 17 Jan 2024 **RR # 2, 9094 CAVANAGH ROAD**  
**Lab Number** : 02609520 **Diagnosed** : 18 Jan 2024 **ASHTON, ON**  
**Unique Number** : 5710606 **Diagnostician** : Kevin Marson **CA K0A 1B0**  
**Test Package** : MOB 1 **Contact:** Keith

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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