



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**(336342)**  
Machine Id  
**LIEBHERR A918 109052-1508**  
Component  
**Rear Left Wheel Hub**  
Fluid  
**PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0281478</b>	LH0237727	LH0239639
Sample Date		Client Info		<b>09 Jan 2024</b>	15 Jun 2023	30 Aug 2022
Machine Age	hrs	Client Info		<b>4997</b>	3985	3011
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)	>650	<b>40</b>	85	31
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>60	<b>10</b>	10	7
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

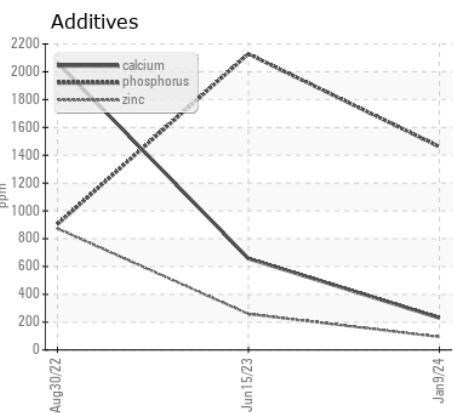
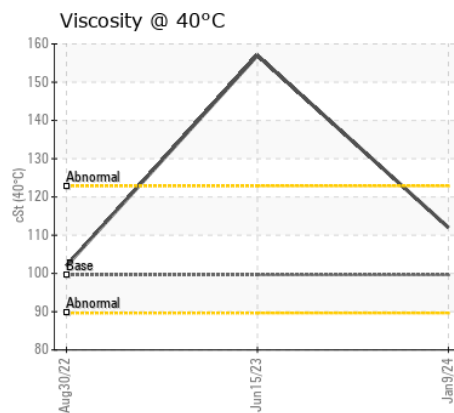
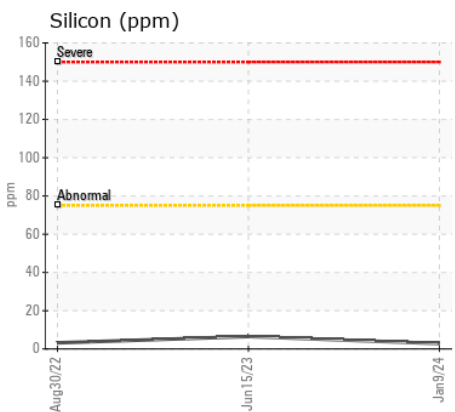
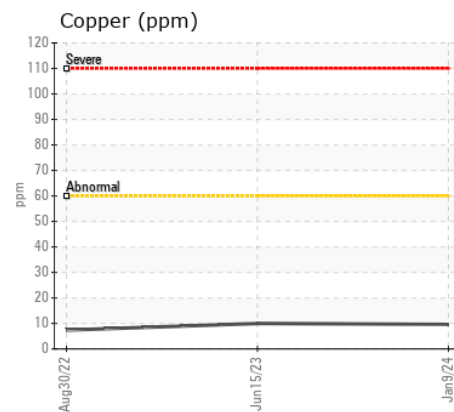
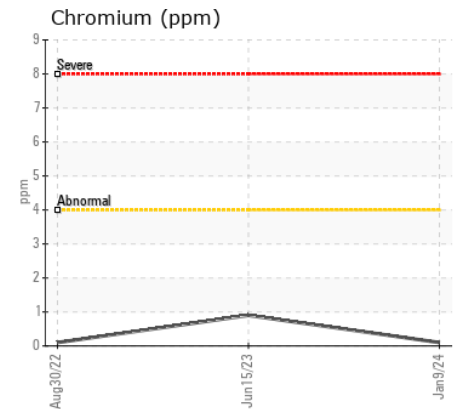
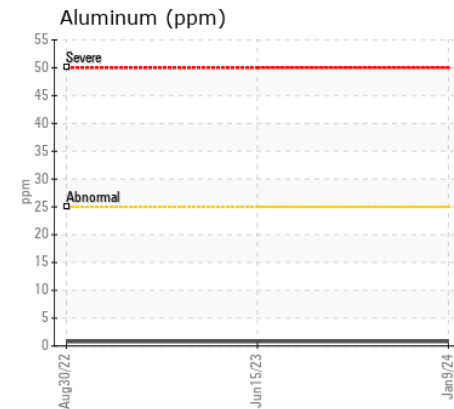
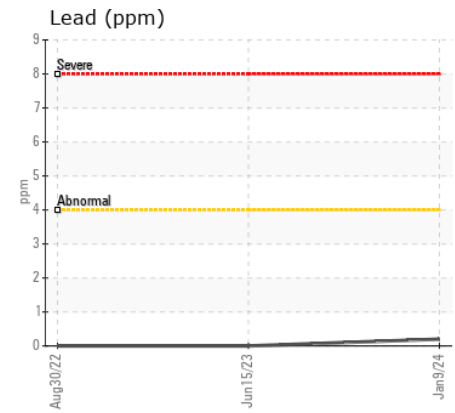
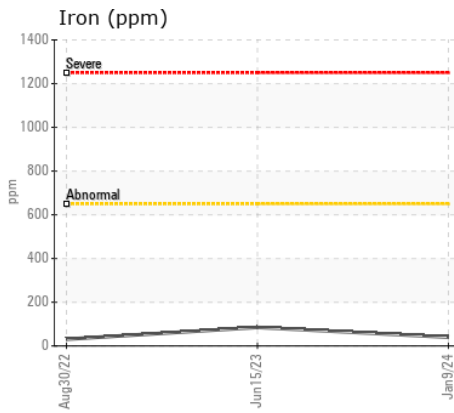
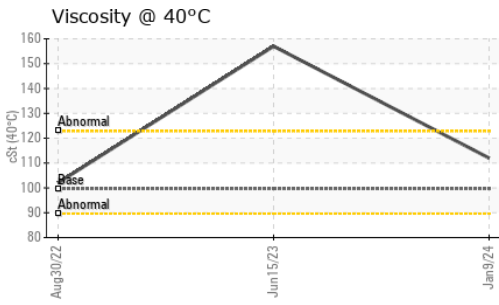
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>3</b>	6	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</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*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	3	2
Boron	ppm	ASTM D5185(m)	328	<b>215</b>	22	49
Barium	ppm	ASTM D5185(m)	1	<b>3</b>	8	5
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	<1
Magnesium	ppm	ASTM D5185(m)	1	<b>10</b>	12	12
Calcium	ppm	ASTM D5185(m)	7	<b>230</b>	657	2066
Phosphorus	ppm	ASTM D5185(m)	1145	<b>1461</b>	2128	904
Zinc	ppm	ASTM D5185(m)	3	<b>93</b>	259	873
Sulfur	ppm	ASTM D5185(m)	17909	<b>20521</b>	20583	5766
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>112</b>	157	102



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **THOMAS CAVANAGH CONSTRUCTION LTD**  
**Sample No.** : LH0281478 **Received** : 23 Jan 2024 **RR # 2, 9094 CAVANAGH ROAD**  
**Lab Number** : 02610662 **Diagnosed** : 23 Jan 2024 **ASHTON, ON**  
**Unique Number** : 5711748 **Diagnostician** : Wes Davis **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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