



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(351064)**  
Machine Id  
**122398-1216**  
Component  
**Rear Right Wheel Hub**  
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>LH0281253</b>	LH0202601	---
Sample Date		Client Info		<b>07 Feb 2024</b>	20 Oct 2021	---
Machine Age	hrs	Client Info		<b>5387</b>	584	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>745	<b>27</b>	20	---
Chromium	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>130	<b>8</b>	31	---
Tin	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

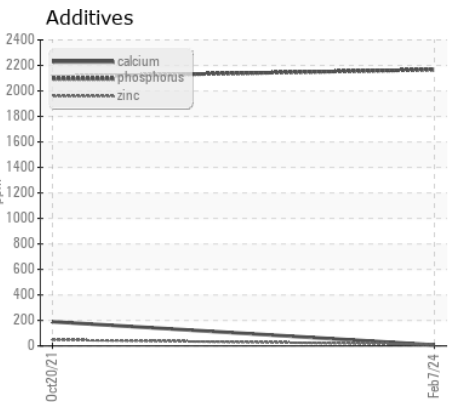
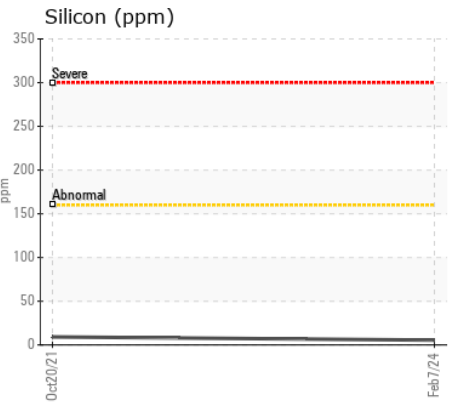
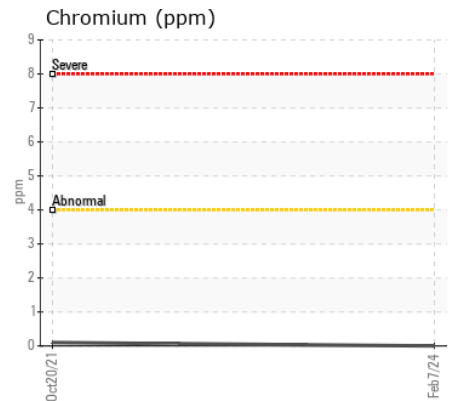
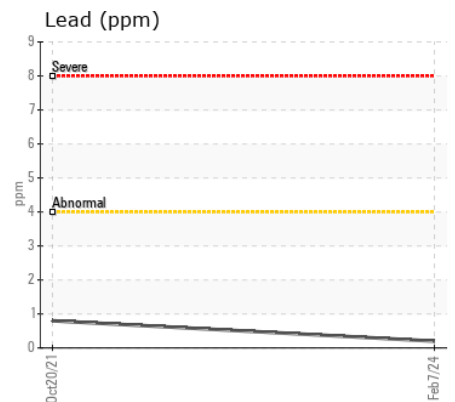
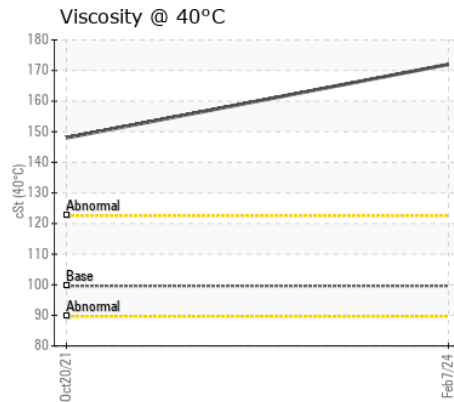
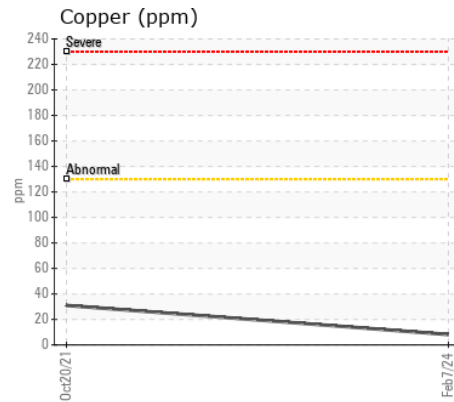
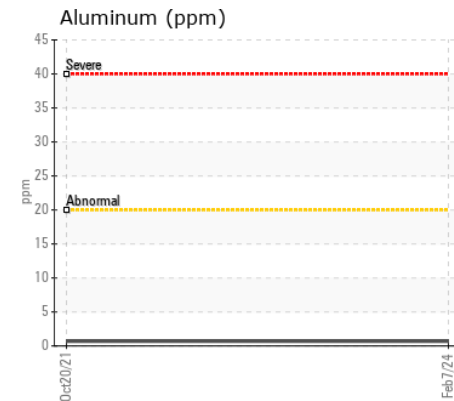
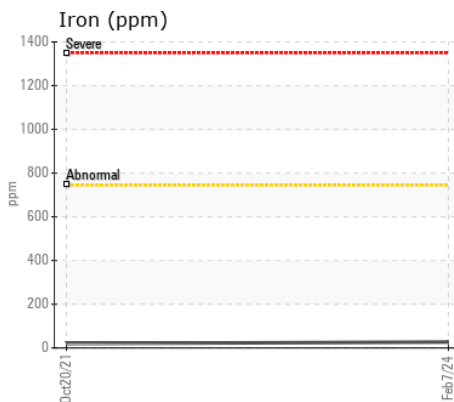
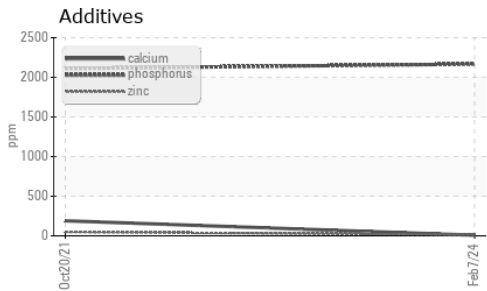
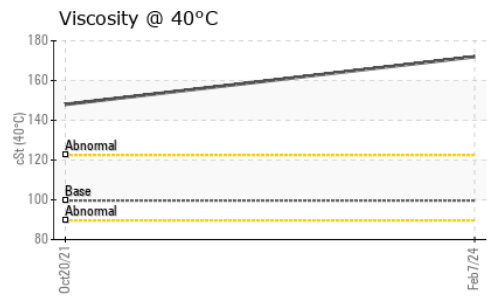
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>160	<b>6</b>	9	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	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>	4	---
Boron	ppm	ASTM D5185(m)	328	<b>46</b>	8	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	2	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	1	<b>3</b>	2	---
Calcium	ppm	ASTM D5185(m)	7	<b>8</b>	190	---
Phosphorus	ppm	ASTM D5185(m)	1145	<b>2167</b>	2111	---
Zinc	ppm	ASTM D5185(m)	3	<b>12</b>	48	---
Sulfur	ppm	ASTM D5185(m)	17909	<b>23937</b>	22939	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	<b>172</b>	148	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0281253  
**Lab Number** : 02619355  
**Unique Number** : 5736465  
**Test Package** : MOB 1  
**Received** : 01 Mar 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 01 Mar 2024 - Wes Davis

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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.