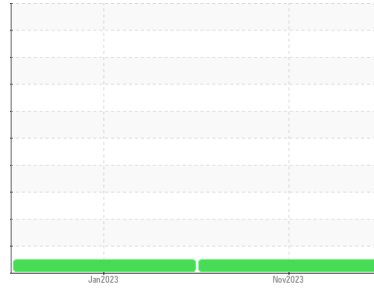


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**Tractors**  
Machine Id  
**UTL003**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA DURATRAN (--- LTR)**

## DIAGNOSIS

### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### 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.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0075072</b>	PC0067304	---
Sample Date	Client Info			<b>14 Nov 2023</b>	25 Jan 2023	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

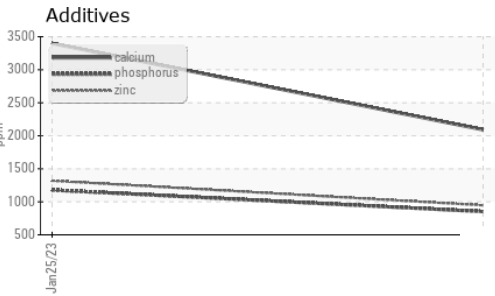
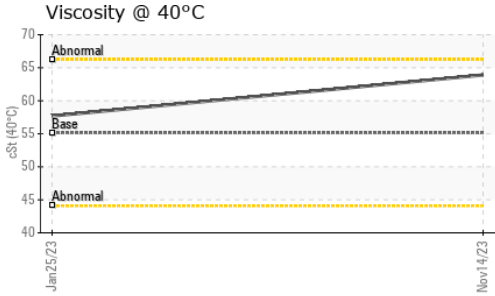
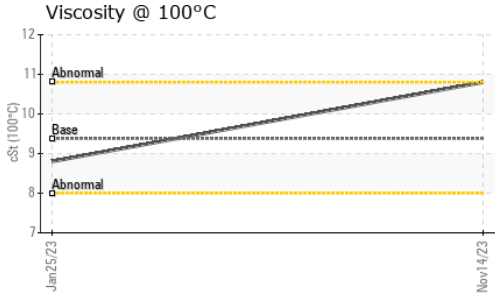
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>.2	<b>NEG</b>	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	<b>72</b>	213	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	2	---
Silver	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>4</b>	24	---
Lead	ppm	ASTM D5185(m)	>25	<b>2</b>	4	---
Copper	ppm	ASTM D5185(m)	>100	<b>46</b>	128	---
Tin	ppm	ASTM D5185(m)	>10	<b>1</b>	6	---
Antimony	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	110	<b>9</b>	100	---
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	3	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185(m)	13	<b>14</b>	35	---
Calcium	ppm	ASTM D5185(m)	3610	<b>2091</b>	3399	---
Phosphorus	ppm	ASTM D5185(m)	1192	<b>852</b>	1178	---
Zinc	ppm	ASTM D5185(m)	1455	<b>946</b>	1319	---
Sulfur	ppm	ASTM D5185(m)	2641	<b>2967</b>	2816	---
Lithium	ppm	ASTM D5185(m)		<b>6</b>	24	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	<b>18</b>	107	---
Sodium	ppm	ASTM D5185(m)		<b>12</b>	27	---
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	10	---

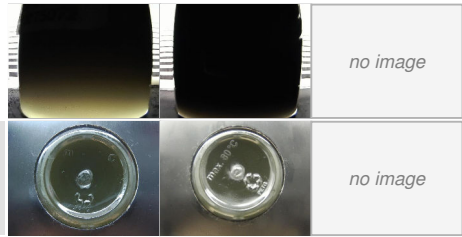
# OIL ANALYSIS REPORT



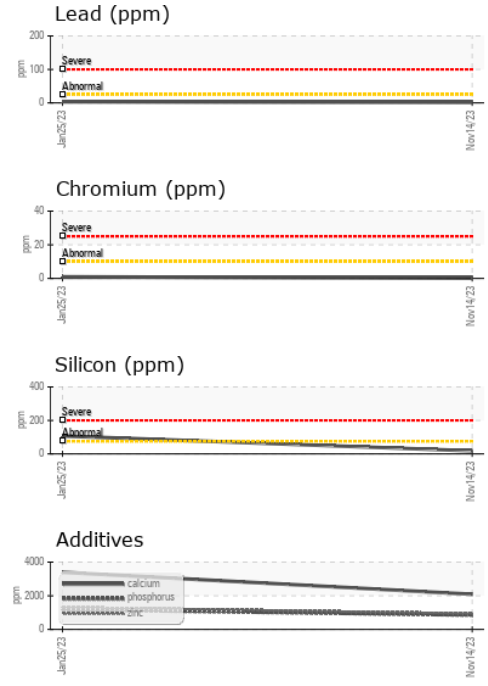
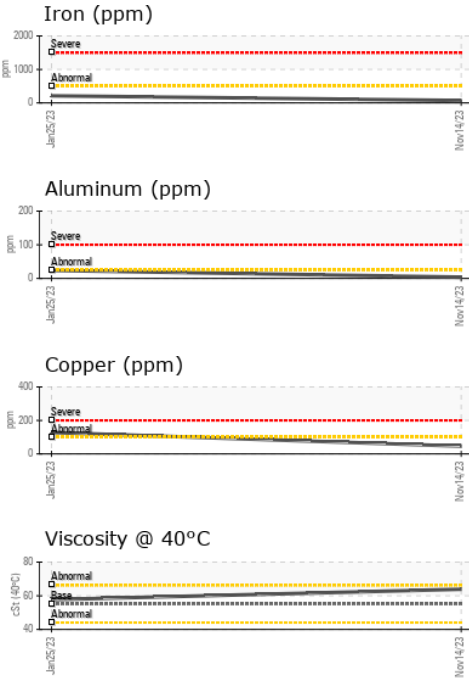
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>.2	NEG	---
Free Water	scalar	Visual*		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	63.9	57.7
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	10.8	8.8
Viscosity Index (VI)	Scale	ASTM D2270*	153	160	128

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0075072 **Received** : 21 Nov 2023  
**Lab Number** : 02597947 **Diagnosed** : 21 Nov 2023  
**Unique Number** : 5683027 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

**Lakeshore Gold Timmins West**  
 Timmins, ON  
 CA  
 Contact: Adam Koscielak  
 adam.koscielak@HFSinclair.com  
 T:  
 F:

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.