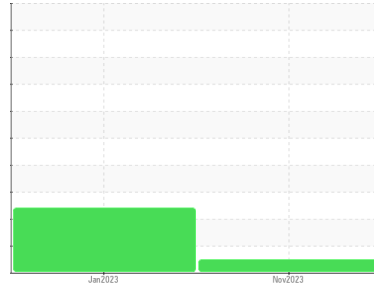


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Tractors
Machine Id
UTL003

Component
Rear 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			PC0075077	PC0067295	---
Sample Date	Client Info			14 Nov 2023	25 Jan 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

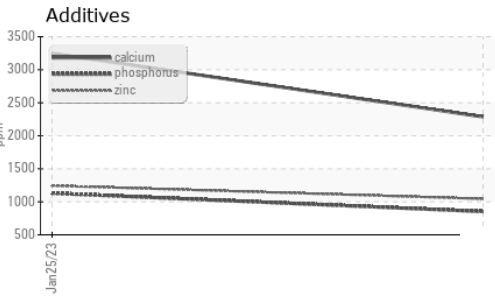
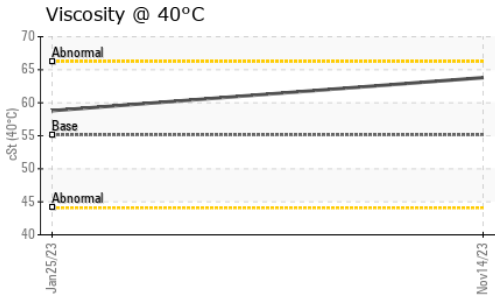
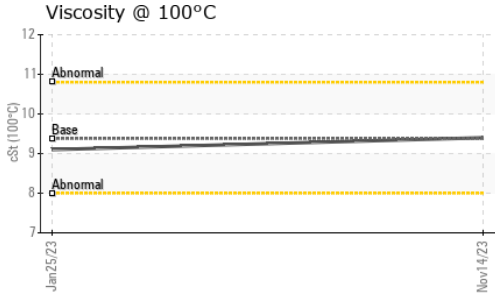
CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>.2	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	91	317	---
Chromium	ppm	ASTM D5185(m)	>10	0	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		<1	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	1	---
Lead	ppm	ASTM D5185(m)	>25	23	▲ 32	---
Copper	ppm	ASTM D5185(m)	>100	43	▲ 264	---
Tin	ppm	ASTM D5185(m)	>10	2	▲ 13	---
Antimony	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	110	2	94	---
Barium	ppm	ASTM D5185(m)	0.0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	0	1	---
Manganese	ppm	ASTM D5185(m)	1	<1	3	---
Magnesium	ppm	ASTM D5185(m)	13	11	21	---
Calcium	ppm	ASTM D5185(m)	3610	2287	3248	---
Phosphorus	ppm	ASTM D5185(m)	1192	853	1130	---
Zinc	ppm	ASTM D5185(m)	1455	1045	1244	---
Sulfur	ppm	ASTM D5185(m)	2641	2781	3806	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	9	36	---
Sodium	ppm	ASTM D5185(m)		<1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---

OIL ANALYSIS REPORT

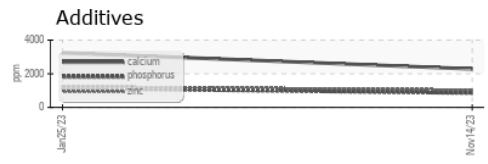
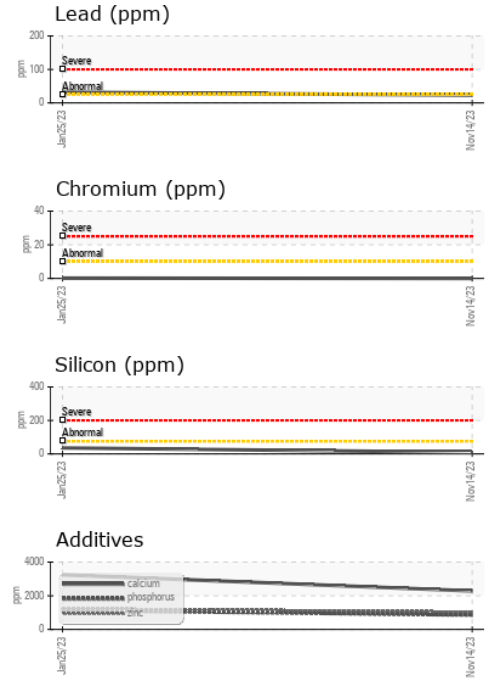
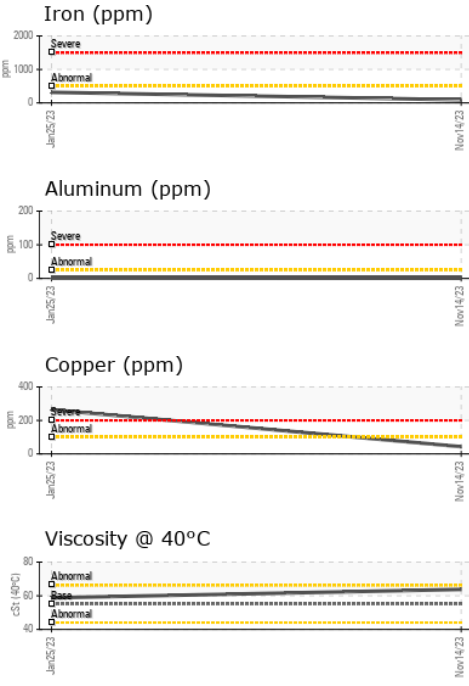


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	LIGHT	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	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	63.8	58.8
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	9.4	9.1
Viscosity Index (VI)	Scale	ASTM D2270*	153	126	133

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					no image
Bottom					no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0075077 **Received** : 21 Nov 2023
Lab Number : 02597948 **Diagnosed** : 21 Nov 2023
Unique Number : 5683028 **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.