



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(351064)
Machine Id
122398-1216
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		LH0281249	LH0202597	---
Sample Date		Client Info		07 Feb 2024	20 Oct 2021	---
Machine Age	hrs	Client Info		5387	584	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	3	8	---
Chromium	ppm	ASTM D5185(m)	>2	0	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>4	0	0	---
Aluminum	ppm	ASTM D5185(m)	>7	<1	<1	---
Lead	ppm	ASTM D5185(m)	>4	0	<1	---
Copper	ppm	ASTM D5185(m)	>135	3	21	---
Tin	ppm	ASTM D5185(m)	>3	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

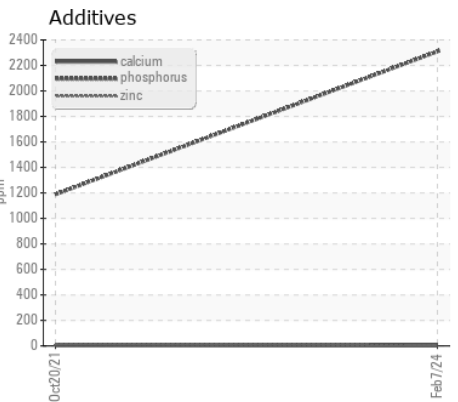
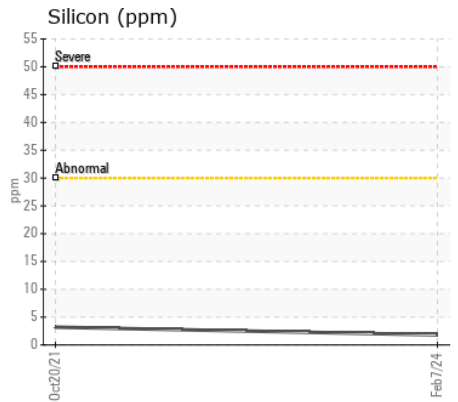
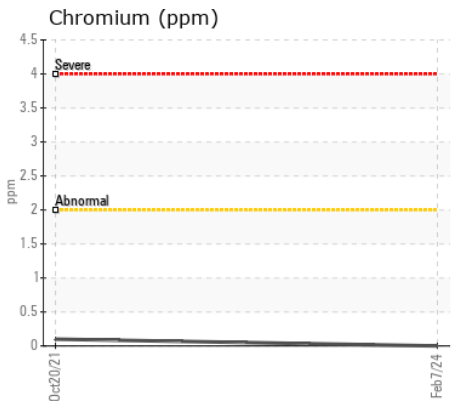
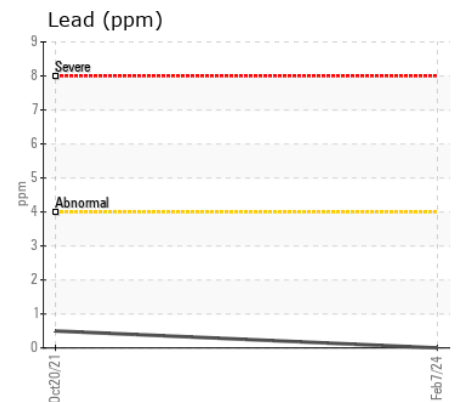
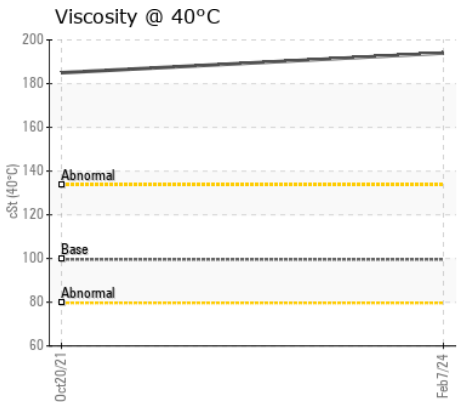
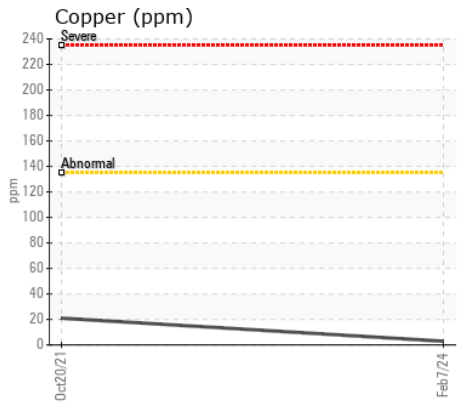
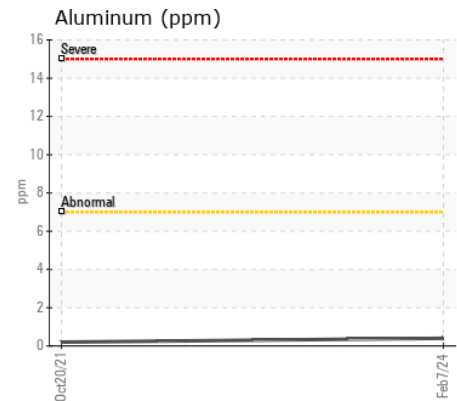
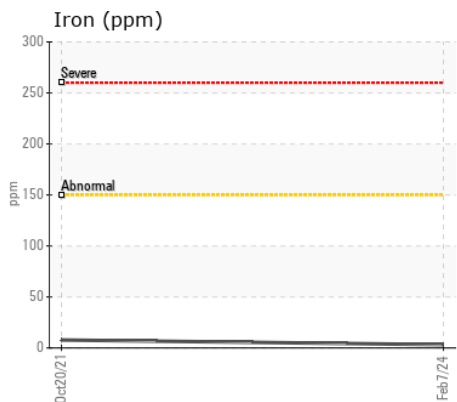
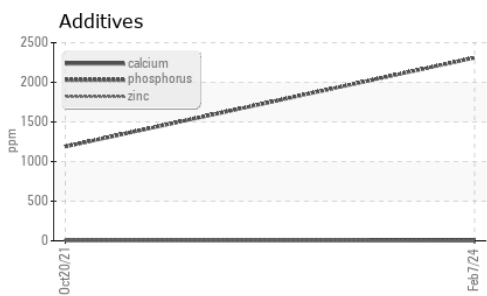
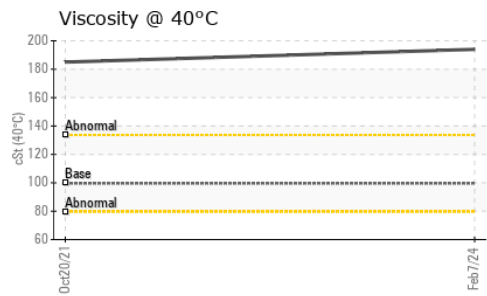
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	3	---
Potassium	ppm	ASTM D5185(m)	>20	0	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	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)		<1	4	---
Boron	ppm	ASTM D5185(m)	328	4	2	---
Barium	ppm	ASTM D5185(m)	1	0	352	---
Molybdenum	ppm	ASTM D5185(m)		0	<1	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)	1	1	<1	---
Calcium	ppm	ASTM D5185(m)	7	3	5	---
Phosphorus	ppm	ASTM D5185(m)	1145	2310	1189	---
Zinc	ppm	ASTM D5185(m)	3	5	15	---
Sulfur	ppm	ASTM D5185(m)	17909	24351	29031	---
Visc @ 40°C	cSt	ASTM D7279(m)	99.6	194	185	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0281249 **Received** : 01 Mar 2024
Lab Number : 02619360 **Tested** : 01 Mar 2024
Unique Number : 5736470 **Diagnosed** : 01 Mar 2024 - Wes Davis
Test Package : MOB 1

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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.