



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
OR874
Component
Front Differential
Fluid
PETRO CANADA DURATRAN (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100616	GFL0054609	---
Sample Date		Client Info		19 May 2024	25 Jan 2023	---
Machine Age	hrs	Client Info		15203	13773	---
Oil Age	hrs	Client Info		1430	1096	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Iron ppm levels are severe. PQ levels are severe. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184*		▲ 1060	214	---
Iron	ppm	ASTM D5185(m)	>500	▲ 2446	▲ 998	---
Chromium	ppm	ASTM D5185(m)	>10	2	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	4	2	---
Lead	ppm	ASTM D5185(m)	>25	0	0	---
Copper	ppm	ASTM D5185(m)	>100	3	1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	VLITE	NONE	---

CONTAMINATION

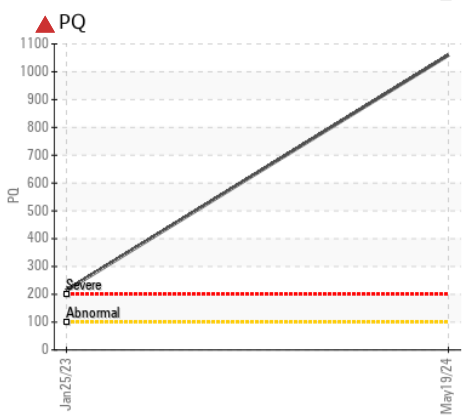
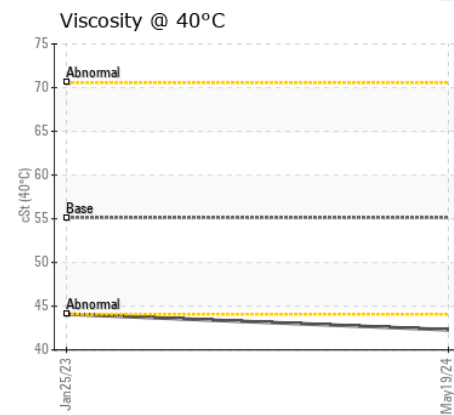
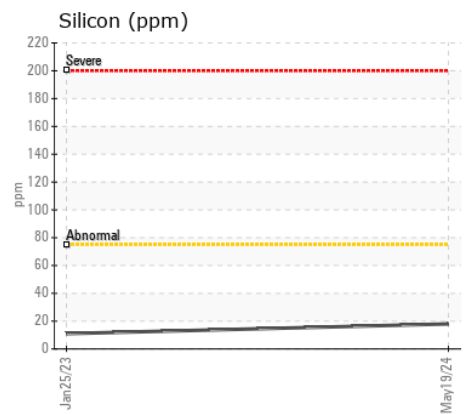
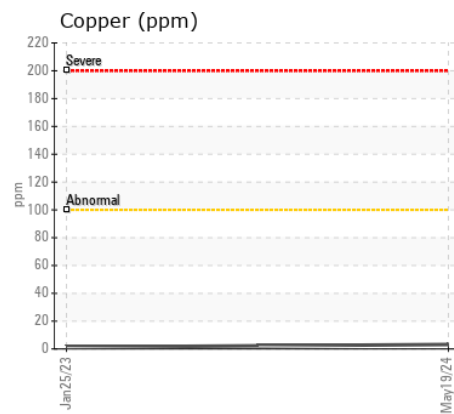
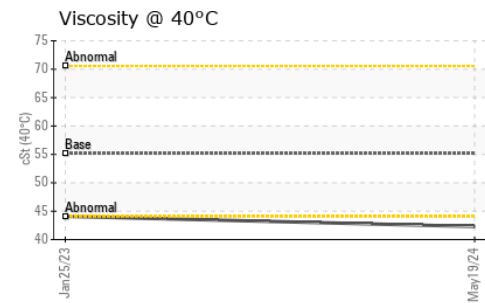
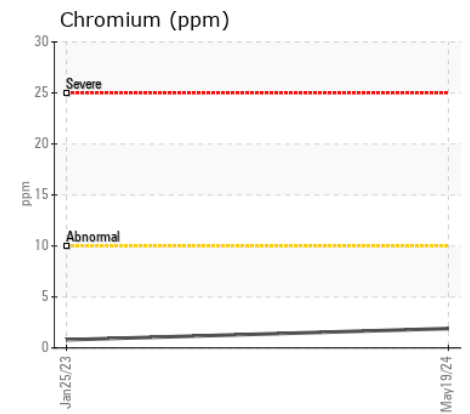
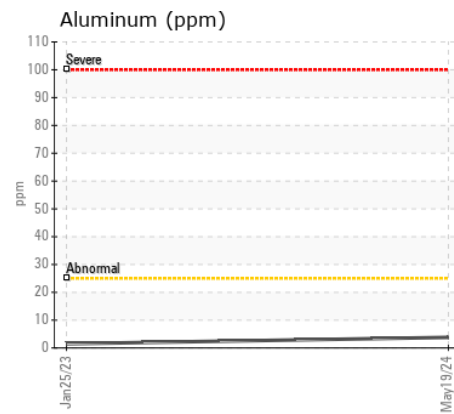
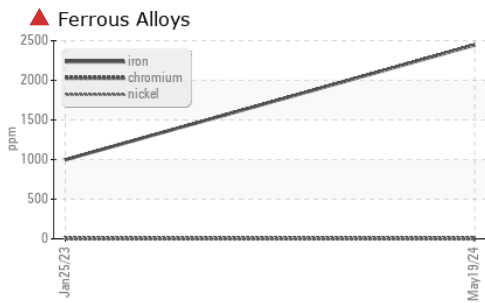
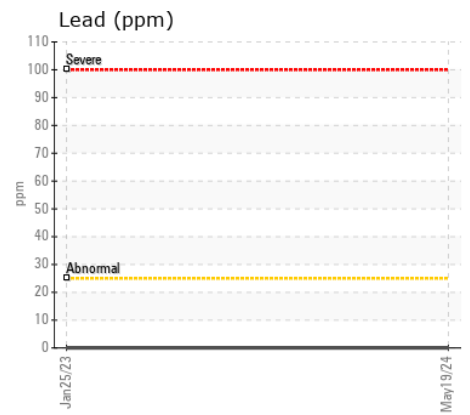
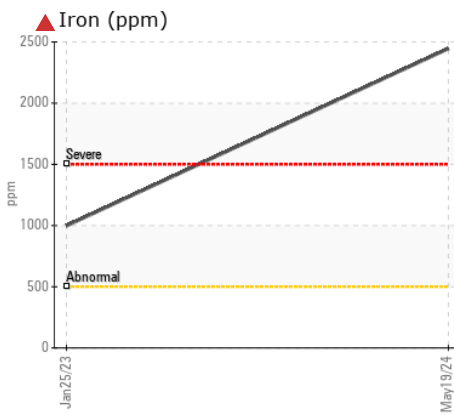
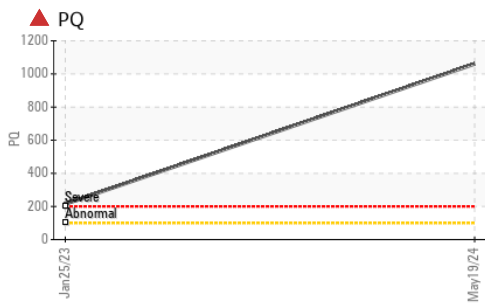
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	18	11	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	VLITE	VLITE	---
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*	>.2	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		6	5	---
Boron	ppm	ASTM D5185(m)	110	84	74	---
Barium	ppm	ASTM D5185(m)	0.0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	0	<1	---
Manganese	ppm	ASTM D5185(m)	1	17	7	---
Magnesium	ppm	ASTM D5185(m)	13	17	13	---
Calcium	ppm	ASTM D5185(m)	3610	3593	3427	---
Phosphorus	ppm	ASTM D5185(m)	1192	1169	1227	---
Zinc	ppm	ASTM D5185(m)	1455	1259	1204	---
Sulfur	ppm	ASTM D5185(m)	2641	3098	2953	---
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	42.3	44.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100616 **Received** : 22 May 2024
Lab Number : 02636998 **Tested** : 22 May 2024
Unique Number : 5786160 **Diagnosed** : 22 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PQ)

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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.