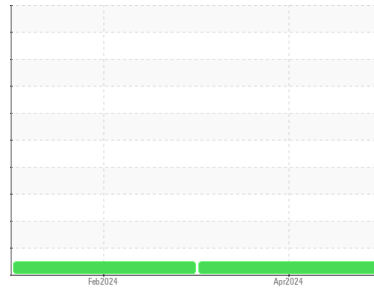




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

433013

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0117267	GFL0112407	---
Sample Date	Client Info		24 Apr 2024	13 Feb 2024	---
Machine Age	hrs	Client Info	1103	19240	---
Oil Age	hrs	Client Info	423	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	14	41	---
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	2	5	---
Lead	ppm	ASTM D5185(m)	>30	0	3	---
Copper	ppm	ASTM D5185(m)	>35	3	10	---
Tin	ppm	ASTM D5185(m)	>4	0	1	---
Antimony	ppm	ASTM D5185(m)		0	0	---
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)	50	21	39	---
Barium	ppm	ASTM D5185(m)	5	<1	4	---
Molybdenum	ppm	ASTM D5185(m)	50	56	99	---
Manganese	ppm	ASTM D5185(m)	0	1	4	---
Magnesium	ppm	ASTM D5185(m)	560	546	639	---
Calcium	ppm	ASTM D5185(m)	1510	1422	1289	---
Phosphorus	ppm	ASTM D5185(m)	780	695	695	---
Zinc	ppm	ASTM D5185(m)	870	838	801	---
Sulfur	ppm	ASTM D5185(m)	2040	1935	2393	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

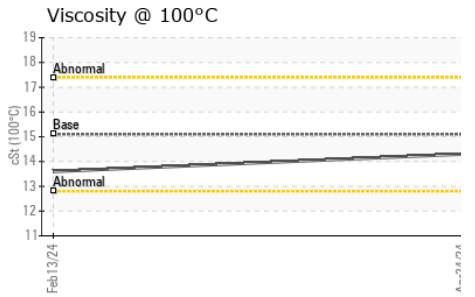
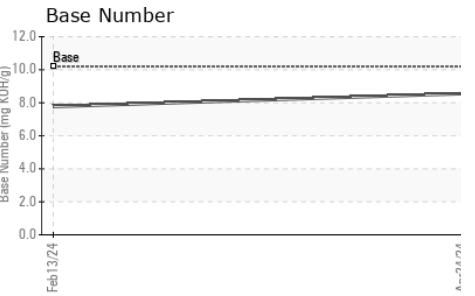
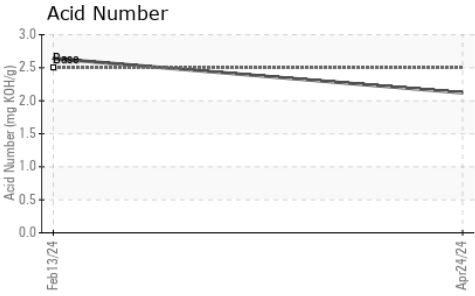
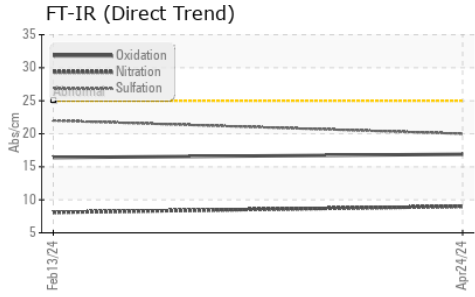
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	20	81	---
Sodium	ppm	ASTM D5185(m)		6	6	---
Potassium	ppm	ASTM D5185(m)	>20	1	6	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.0	8.1	---
Sulfation	Abs./1mm	ASTM D7415*	>30	20.0	22.0	---



OIL ANALYSIS REPORT

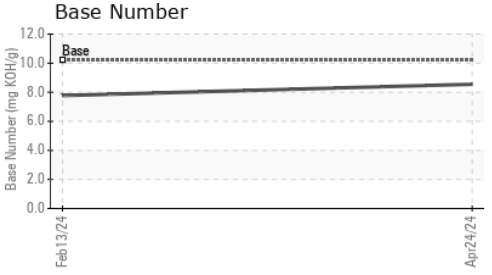
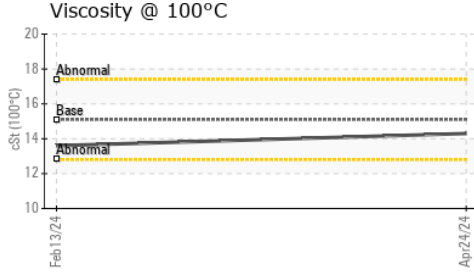
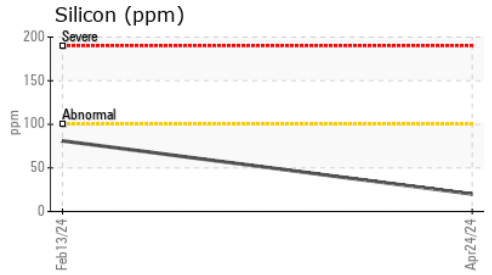
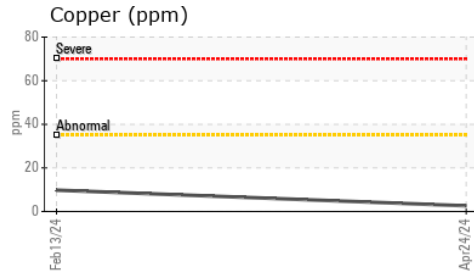
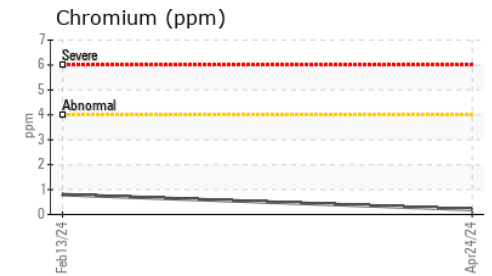
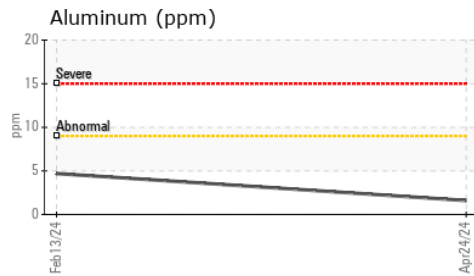
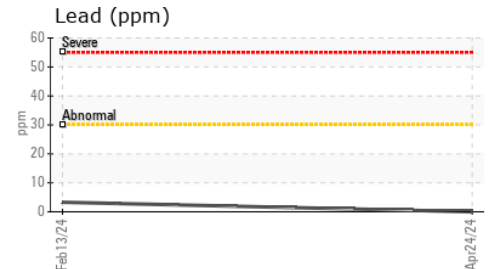
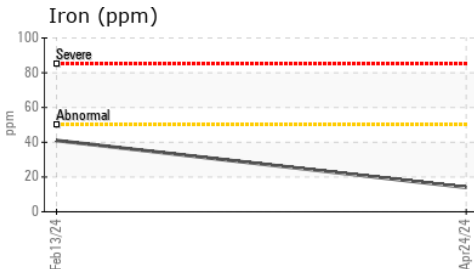


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.9	16.4	---
Acid Number (AN)	mg KOH/g	ASTM D974*	2.5	2.12	2.64	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10.2	8.55	7.77	---
i-pH	Scale 0-14	ASTM D7946*	<4.5	5.06	5.29	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.3	13.6	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 550 - Rocky View County**
Sample No. : GFL0117267 **Received** : 01 May 2024
Lab Number : **02632478** **Tested** : 02 May 2024
Unique Number : 5773631 **Diagnosed** : 02 May 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: i-pH, TAN Auto, TAN Man)

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.

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