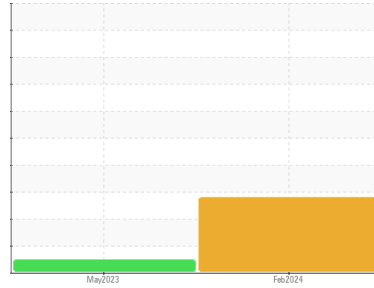




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
CHEVROLET 354051

Component
Gasoline Engine

Fluid
CASTROL EDGE SLX PRO OE 5W30 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Light fuel dilution occurring. There is a moderate concentration of water present in the oil. Free water present. Test for glycol is negative.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0082093	GFL0082114	---
Sample Date	Client Info		13 Feb 2024	09 May 2023	---
Machine Age	kms	Client Info	261168	250484	---
Oil Age	kms	Client Info	10000	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>150	106	65	---
Chromium	ppm	ASTM D5185(m)	>20	2	2	---
Nickel	ppm	ASTM D5185(m)	>5	1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>40	24	11	---
Lead	ppm	ASTM D5185(m)	>50	<1	0	---
Copper	ppm	ASTM D5185(m)	>155	12	16	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
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)		44	81	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		69	73	---
Manganese	ppm	ASTM D5185(m)		1	1	---
Magnesium	ppm	ASTM D5185(m)		498	470	---
Calcium	ppm	ASTM D5185(m)	1925	1158	1122	---
Phosphorus	ppm	ASTM D5185(m)		569	684	---
Zinc	ppm	ASTM D5185(m)	840	604	629	---
Sulfur	ppm	ASTM D5185(m)		2394	2435	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

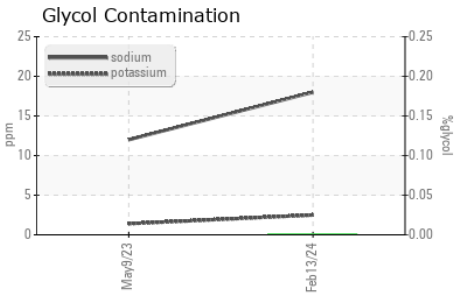
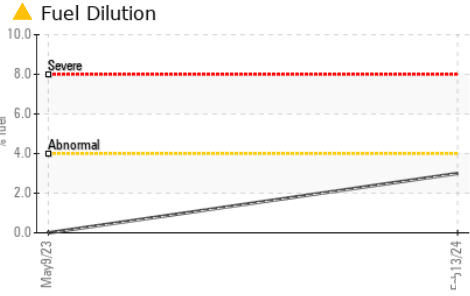
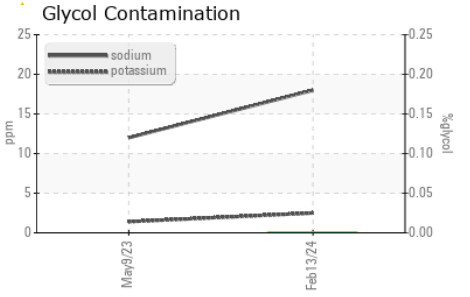
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	21	27	---
Sodium	ppm	ASTM D5185(m)	>400	18	12	---
Potassium	ppm	ASTM D5185(m)	>20	2	1	---
Fuel	%	ASTM D7593*	>4.0	▲ 3	<1.0	---
Glycol	%	ASTM D7922*		0.0	NEG	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	14.4	11.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.7	24.2	---



OIL ANALYSIS REPORT

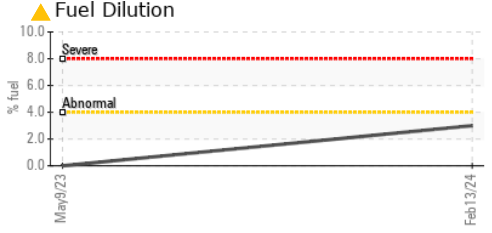
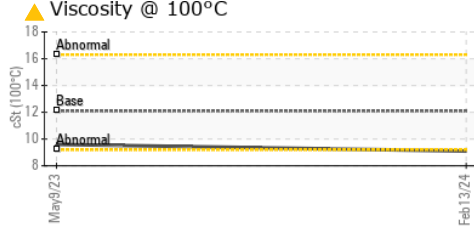
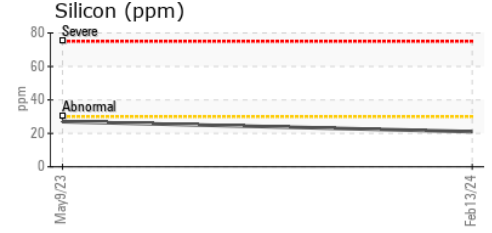
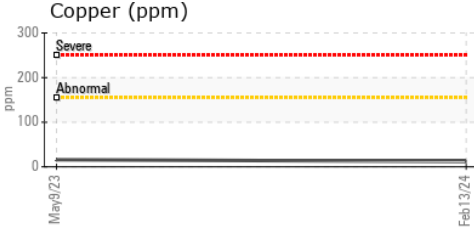
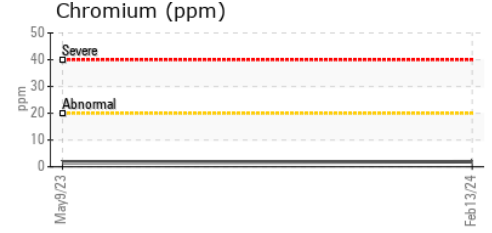
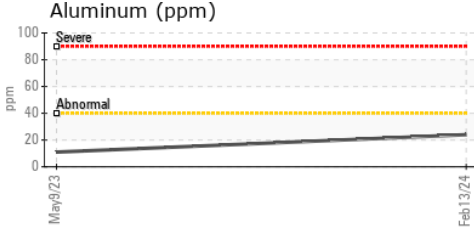
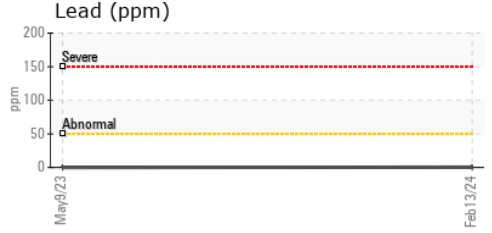
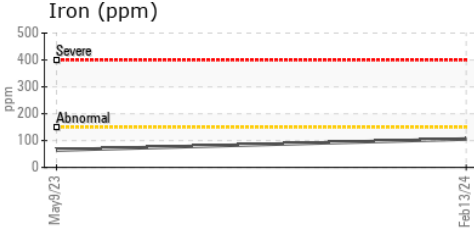


FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	19.0	15.2

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	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	NEG
Free Water	scalar	Visual*		▲ 1%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.1	▲ 9.1	9.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0082093 **Received** : 13 Mar 2024
Lab Number : 02621701 **Tested** : 14 Mar 2024
Unique Number : 5746820 **Diagnosed** : 15 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, PercentFuel, Visual)

GFL Environmental - 527
 740 Pine Street South
 Timmins, ON
 CA P4N 8S9
 Contact: Martin St-Pierre
 martinstpierre@gflenv.com
 T: (705)264-8700
 F: (705)264-8701

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.