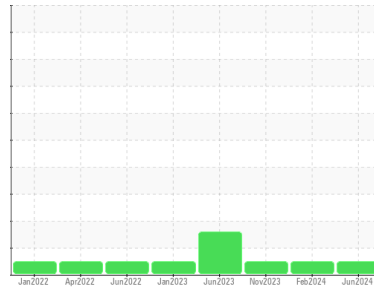




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**1142**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA 10W30 (--- 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0125072</b>	GFL0090756	GFL0090758
Sample Date	Client Info		<b>04 Jun 2024</b>	01 Feb 2024	29 Nov 2023
Machine Age	hrs	Client Info	<b>22812</b>	22169	21998
Oil Age	hrs	Client Info	<b>600</b>	600	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>165	<b>25</b>	12	39
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	1	3
Lead	ppm	ASTM D5185(m)	>150	<b>2</b>	<1	4
Copper	ppm	ASTM D5185(m)	>90	<b>1</b>	<1	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		<b>3</b>	17	1
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>64</b>	47	68
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>1003</b>	913	1086
Calcium	ppm	ASTM D5185(m)		<b>1115</b>	1132	1174
Phosphorus	ppm	ASTM D5185(m)		<b>1060</b>	961	1107
Zinc	ppm	ASTM D5185(m)		<b>1248</b>	1091	1313
Sulfur	ppm	ASTM D5185(m)		<b>2496</b>	2697	2663
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

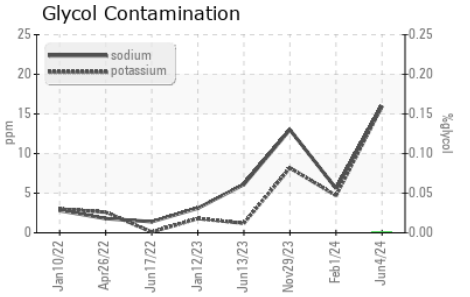
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>7</b>	6	15
Sodium	ppm	ASTM D5185(m)		<b>16</b>	6	13
Potassium	ppm	ASTM D5185(m)	>20	<b>16</b>	5	8
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>7.5	<b>0.7</b>	0.2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	7.5	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	19.2	23.7



# OIL ANALYSIS REPORT

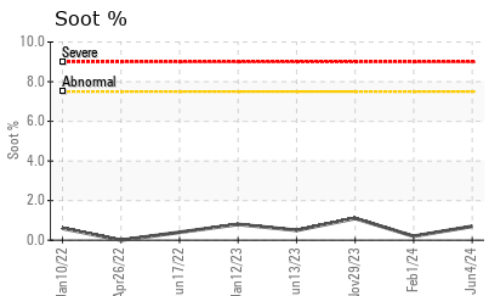
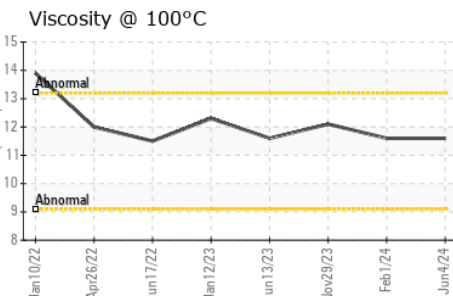
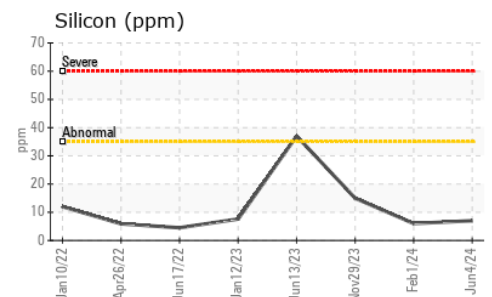
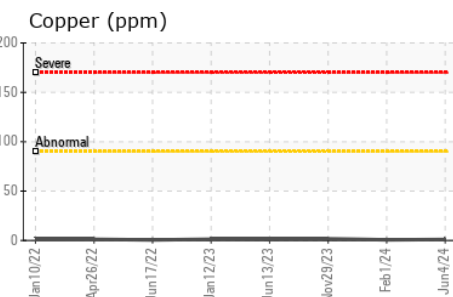
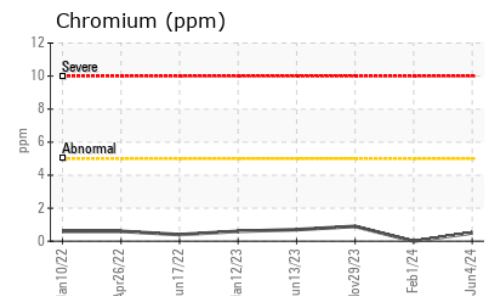
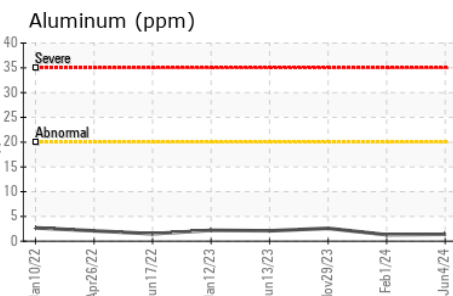
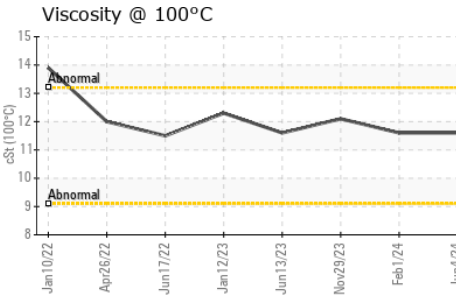
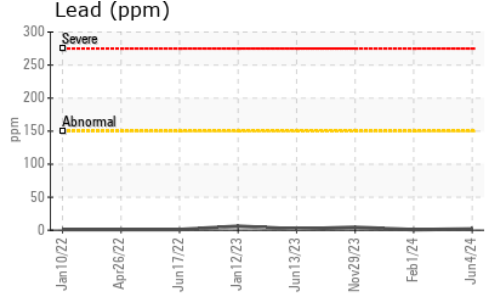
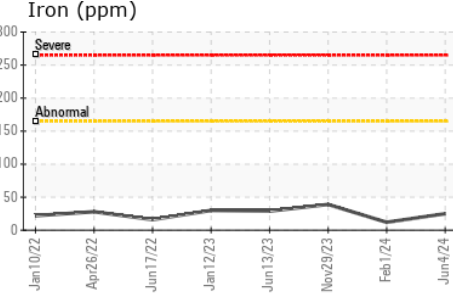
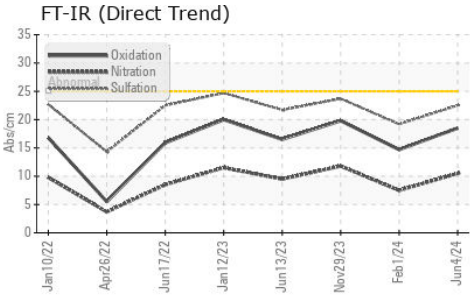


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.5</b>	14.7	19.8

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.6</b>	11.6	12.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0125072  
**Lab Number** : **02642813**  
**Unique Number** : 5800352  
**Test Package** : MOB 1 ( Additional Tests: Glycol )  
**Received** : 19 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Wes Davis

**GFL Environmental - 504 - Edmonton**  
 12015 28 Street NE  
 Edmonton, AB  
 CA T6S 1E2  
 Contact: Jerrod Adair  
 jerrodadair@gflenv.com

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.