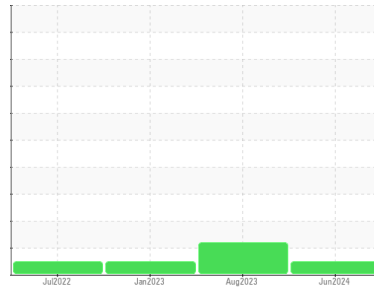




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**1152**  
 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>GFL0125049</b>	GFL0090736	GFL0069697
Sample Date	Client Info		<b>12 Jun 2024</b>	15 Aug 2023	24 Jan 2023
Machine Age	hrs	Client Info	<b>19168</b>	17801	16457
Oil Age	hrs	Client Info	<b>600</b>	600	600
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>165	<b>22</b>	46	27
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	3
Lead	ppm	ASTM D5185(m)	>150	<b>1</b>	14	7
Copper	ppm	ASTM D5185(m)	>90	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
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>1</b>	4	20
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>65</b>	78	72
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>1023</b>	1268	950
Calcium	ppm	ASTM D5185(m)		<b>1107</b>	1422	1574
Phosphorus	ppm	ASTM D5185(m)		<b>1081</b>	1342	1263
Zinc	ppm	ASTM D5185(m)		<b>1269</b>	1562	1440
Sulfur	ppm	ASTM D5185(m)		<b>2553</b>	2774	2809
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

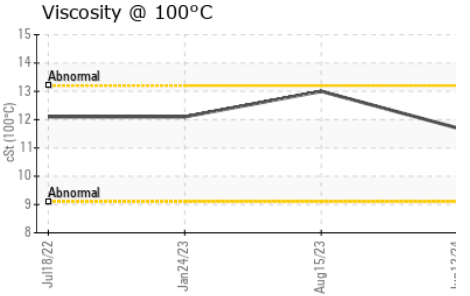
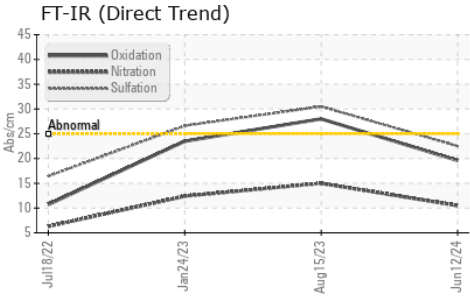
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>35	<b>4</b>	5	5
Sodium	ppm	ASTM D5185(m)		<b>1</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	2

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>7.5	<b>0.3</b>	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	15.0	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.5</b>	30.5	26.6



# OIL ANALYSIS REPORT

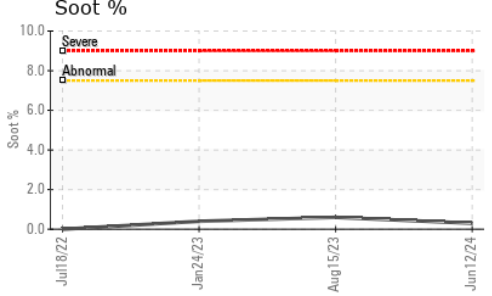
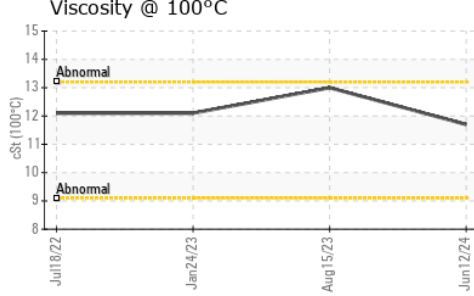
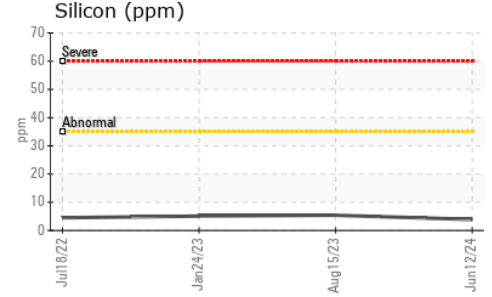
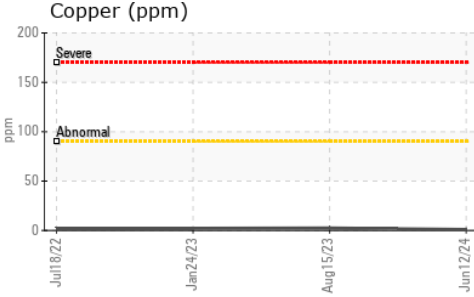
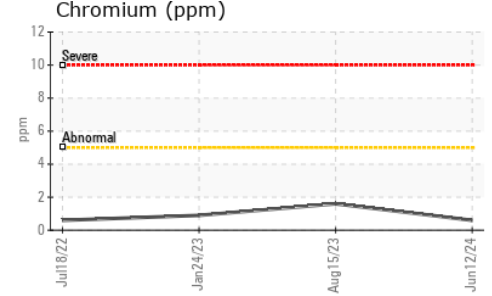
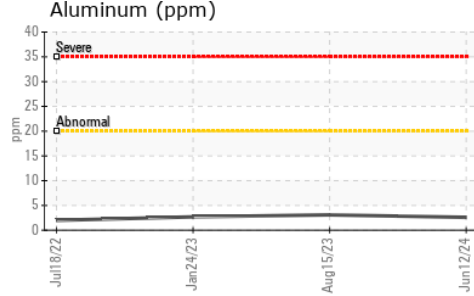
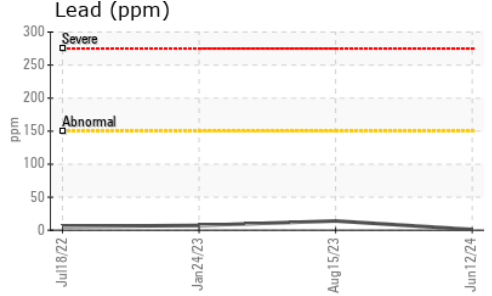
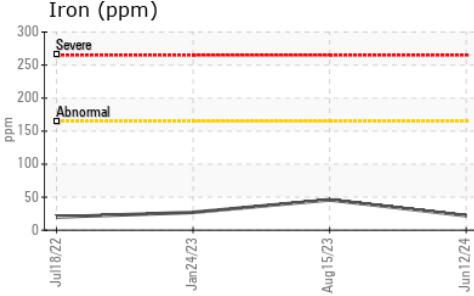


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>19.6</b>	▲ 28.0	23.5

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>11.7</b>	13.0	12.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 504 - Edmonton**  
**Sample No.** : GFL0125049 **Received** : 19 Jun 2024 **12015 28 Street NE**  
**Lab Number** : 02642812 **Tested** : 19 Jun 2024 **Edmonton, AB**  
**Unique Number** : 5800351 **Diagnosed** : 19 Jun 2024 - Wes Davis **CA T6S 1E2**  
**Test Package** : MOB 1 **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.