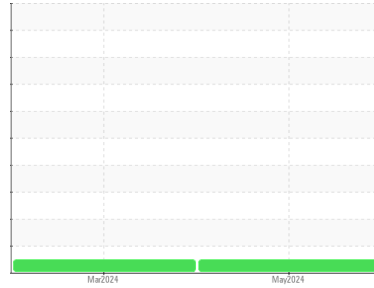




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**101018**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SAE 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>GFL0118578</b>	GFL0107896	---
Sample Date	Client Info		<b>23 May 2024</b>	12 Mar 2024	---
Machine Age	kms	Client Info	<b>338008</b>	330796	---
Oil Age	kms	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>110	<b>8</b>	5	---
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>1</b>	1	---
Lead	ppm	ASTM D5185(m)	>45	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185(m)	>85	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	1	<b>6</b>	8	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185(m)	1	<b>61</b>	60	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	10	<b>1004</b>	988	---
Calcium	ppm	ASTM D5185(m)	2942	<b>1112</b>	1065	---
Phosphorus	ppm	ASTM D5185(m)	1102	<b>995</b>	1003	---
Zinc	ppm	ASTM D5185(m)	1351	<b>1201</b>	1190	---
Sulfur	ppm	ASTM D5185(m)	3903	<b>2511</b>	2591	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

## CONTAMINANTS

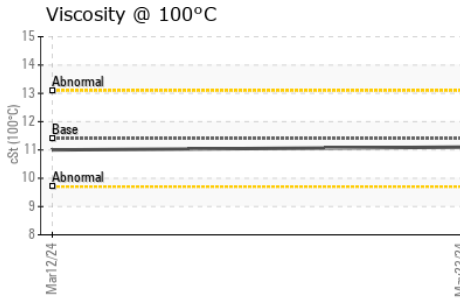
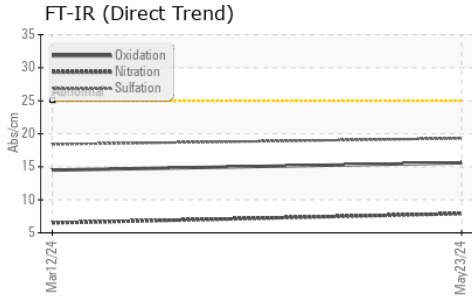
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	1	---
Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	<1	---

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.9</b>	6.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	18.4	---



# OIL ANALYSIS REPORT



### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.5	---

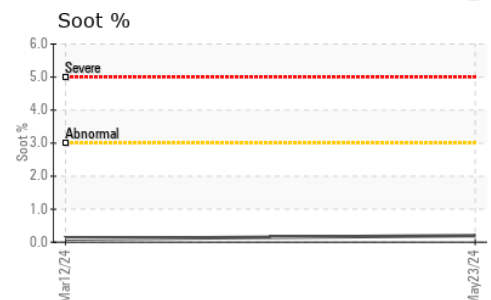
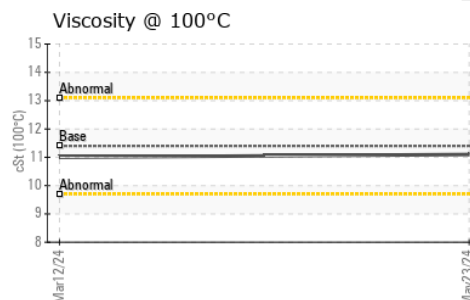
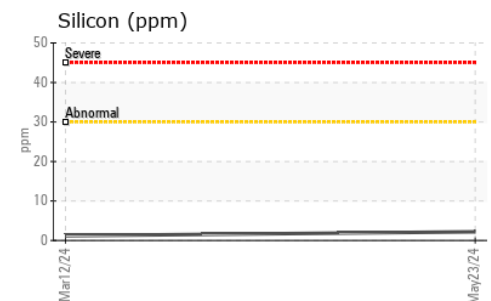
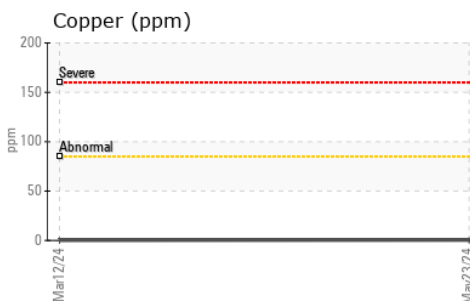
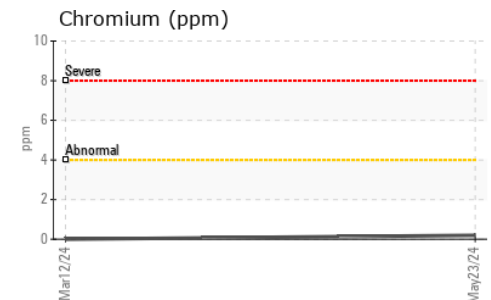
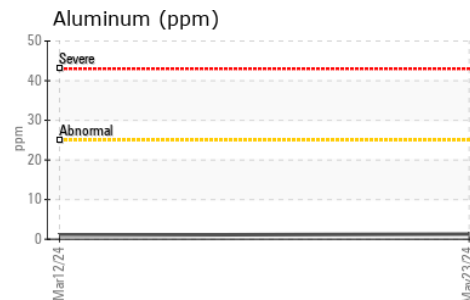
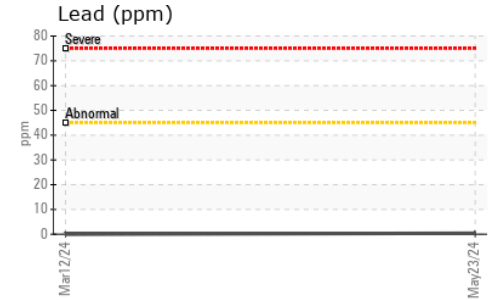
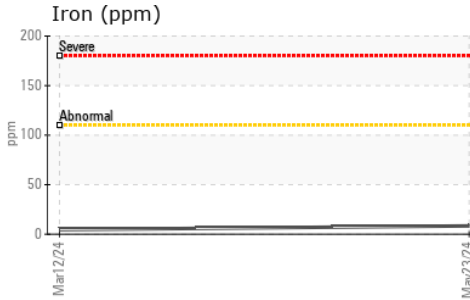
### VISUAL

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

### FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.0	---

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 310 - Winnipeg**  
**Sample No.** : GFL0118578 **Received** : 04 Jun 2024 **#360 - 555 Hervo Street,**  
**Lab Number** : 02639580 **Tested** : 05 Jun 2024 **Winnipeg, MB**  
**Unique Number** : 5788742 **Diagnosed** : 05 Jun 2024 - Wes Davis **CA R3T 3L6**  
**Test Package** : MOB 1 **Contact:** Joshua Lourenco  
**jlourenco@gflenv.com**  
**T: (204)987-9600**  
**F:**

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.