



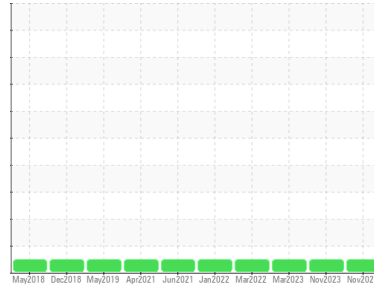
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**8419**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON SHP 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>GFL0094167</b>	GFL0097617	GFL0072854
Sample Date	Client Info		<b>12 Nov 2023</b>	08 Nov 2023	12 Mar 2023
Machine Age	hrs	Client Info	<b>9422</b>	1984	759
Oil Age	hrs	Client Info	<b>600</b>	1195	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>50	<b>22</b>	18	34
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	2	4
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>4</b>	2	4
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	4	2
Copper	ppm	ASTM D5185(m)	>35	<b>1</b>	5	11
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	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)	2	<b>2</b>	8	7
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>61</b>	54	57
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	950	<b>976</b>	578	592
Calcium	ppm	ASTM D5185(m)	1050	<b>1111</b>	1660	1847
Phosphorus	ppm	ASTM D5185(m)	995	<b>1009</b>	703	780
Zinc	ppm	ASTM D5185(m)	1180	<b>1228</b>	918	972
Sulfur	ppm	ASTM D5185(m)	2600	<b>2500</b>	1916	2050
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>+100	<b>6</b>	4	12
Sodium	ppm	ASTM D5185(m)		<b>6</b>	14	15
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	1	3

## INFRA-RED

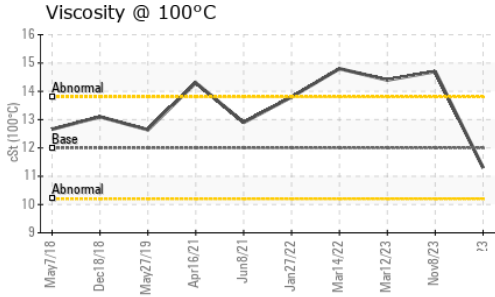
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		<b>0.4</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	11.6	7.9
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>21.1</b>	25.3	21.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.2</b>	20.7	13.0



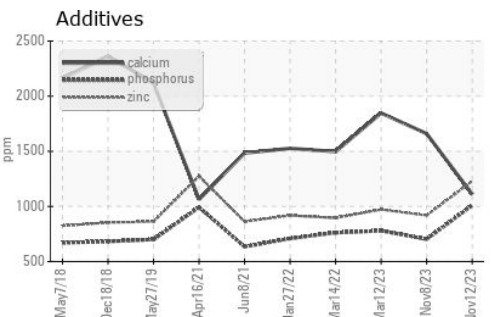
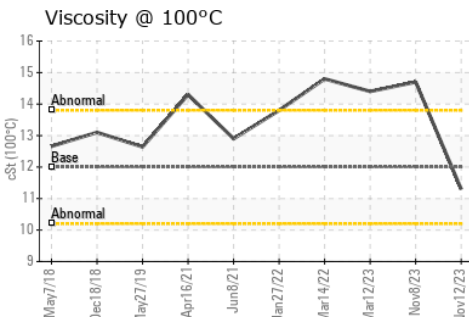
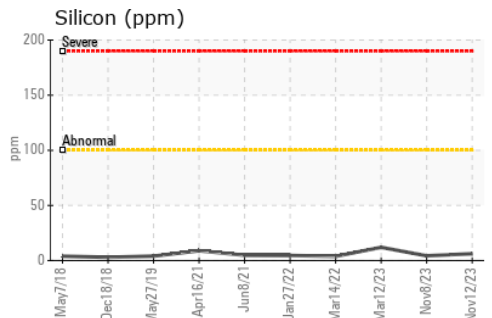
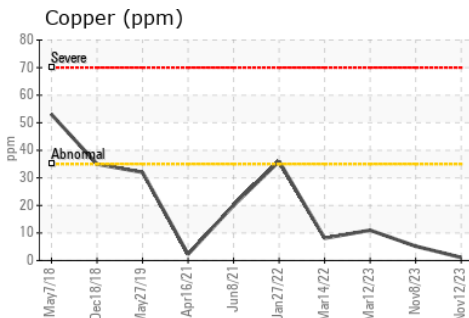
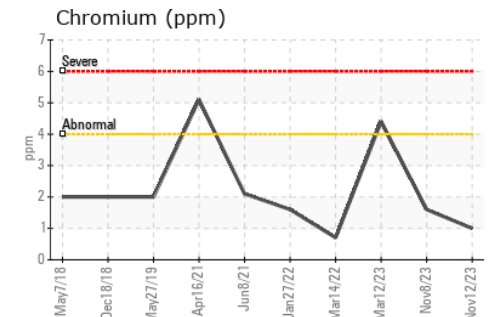
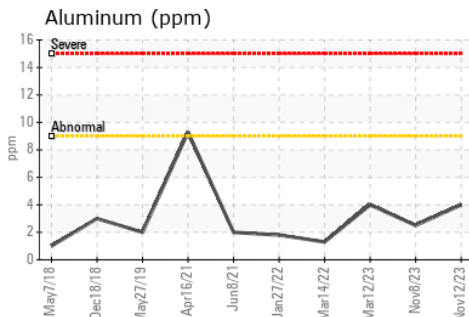
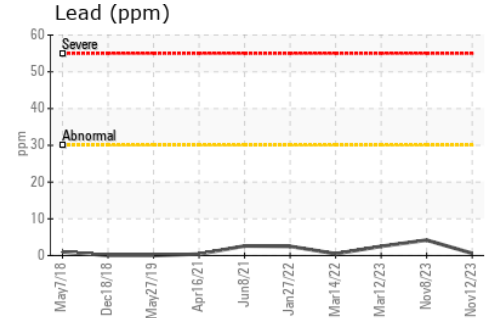
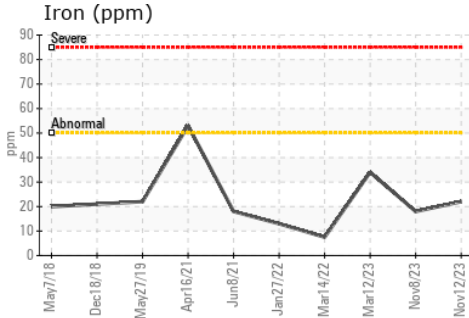
# OIL ANALYSIS REPORT



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)	12.00	11.3	14.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW  
**Sample No.** : GFL0094167 **Received** : 27 Nov 2023  
**Lab Number** : 02598907 **Diagnosed** : 27 Nov 2023  
**Unique Number** : 5683987 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

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.