



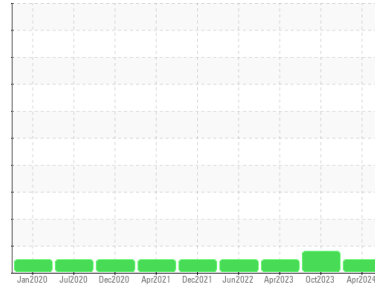
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**901002**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (23 LTR)**



## 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>GFL0094416</b>	GFL0094389	GFL0063942
Sample Date	Client Info		<b>02 Apr 2024</b>	05 Oct 2023	25 Apr 2023
Machine Age	hrs	Client Info	<b>18589</b>	16336	16336
Oil Age	hrs	Client Info	<b>18589</b>	16336	16336
Oil Changed	Client Info		<b>Changed</b>	N/A	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	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>15</b>	33	25
Chromium	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	4	3
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	7	6
Copper	ppm	ASTM D5185(m) >35	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185(m) >4	<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) 50	<b>17</b>	19	19
Barium	ppm	ASTM D5185(m) 5	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185(m) 50	<b>61</b>	67	68
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185(m) 560	<b>721</b>	695	746
Calcium	ppm	ASTM D5185(m) 1510	<b>1666</b>	1853	1995
Phosphorus	ppm	ASTM D5185(m) 780	<b>861</b>	895	1062
Zinc	ppm	ASTM D5185(m) 870	<b>1071</b>	1101	1193
Sulfur	ppm	ASTM D5185(m) 2040	<b>2127</b>	2112	2360
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>2</b>	11	5
Sodium	ppm	ASTM D5185(m)	<b>3</b>	6	7
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	0	<1

## INFRA-RED

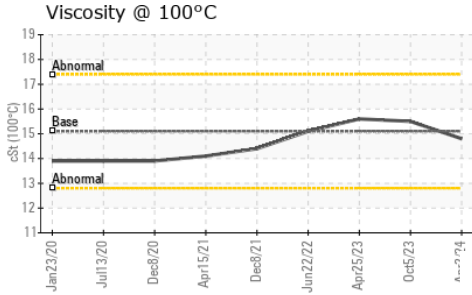
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	<b>10.9</b>	11.4	12.3
Sulfation	Abs/.1mm	ASTM D7415*	<b>23.1</b>	25.7	28.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	<b>18.3</b>	21.8	23.4



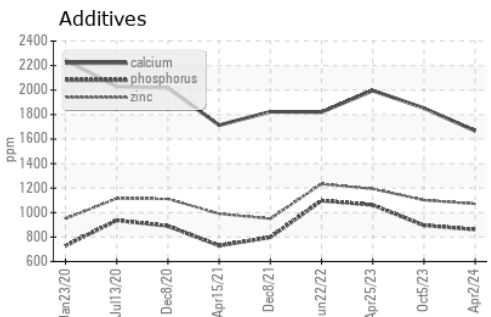
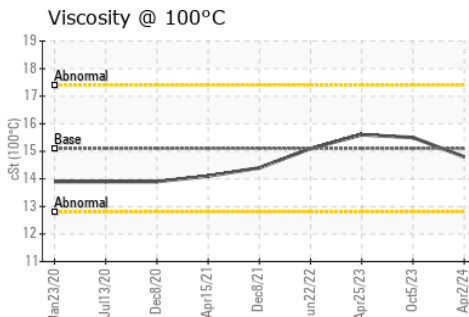
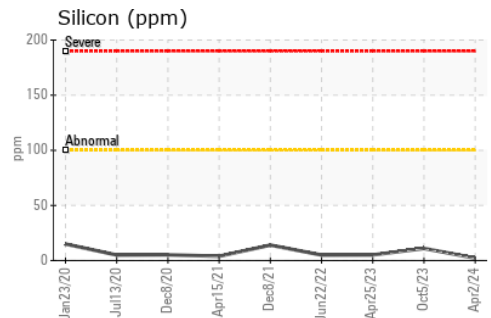
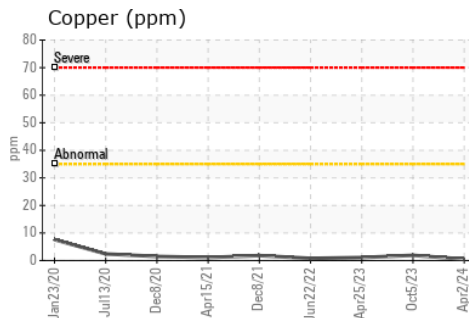
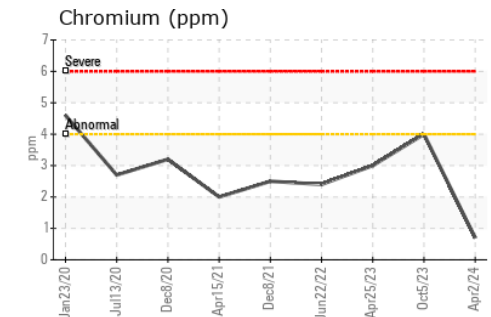
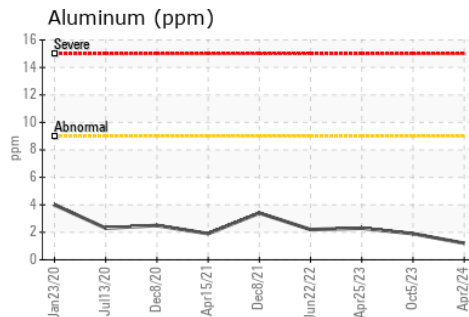
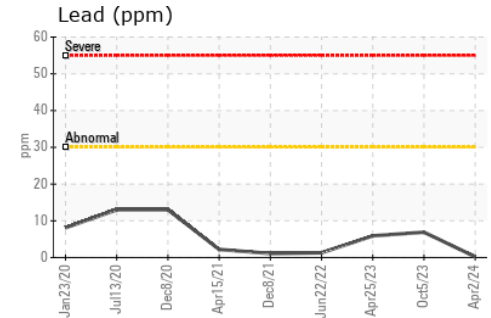
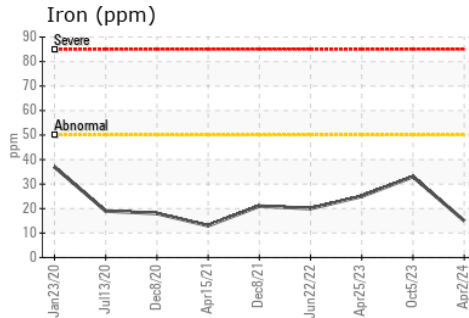
# OIL ANALYSIS REPORT



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)	15.1	14.8	15.5

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0094416  
**Lab Number** : 02626415  
**Unique Number** : 5759547  
**Test Package** : MOB 1

**GFL Environmental - 222 - Sandhill**  
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD  
 ORANGEVILLE, ON  
 CA L9W 3X5  
 Contact: GLENN COOK  
 gcook@gflenv.com  
 T: (519)940-4167  
 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.