



Machine Id  
**9174**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (24 LTR)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118900</b>	GFL0094415	GFL0086773
Sample Date		Client Info		<b>21 May 2024</b>	02 Apr 2024	01 Sep 2023
Machine Age	hrs	Client Info		<b>90563</b>	90563	0
Oil Age	hrs	Client Info		<b>90563</b>	90563	0
Filter Age	hrs	Client Info		<b>90563</b>	90563	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>16</b>	28	46
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	4	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>150	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

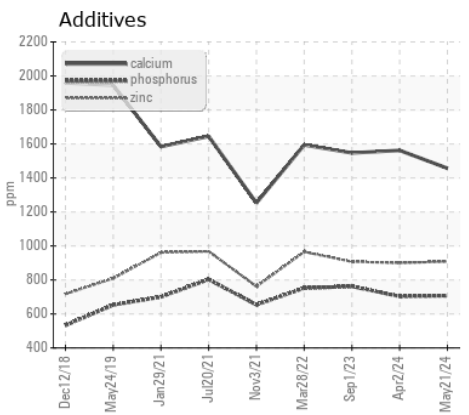
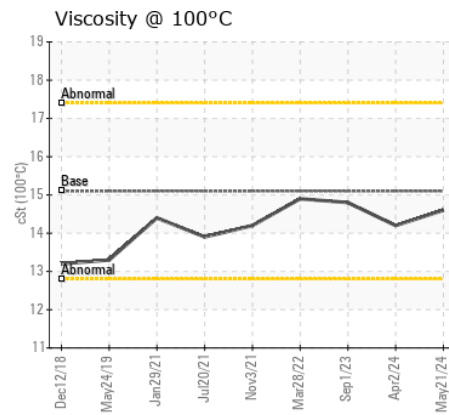
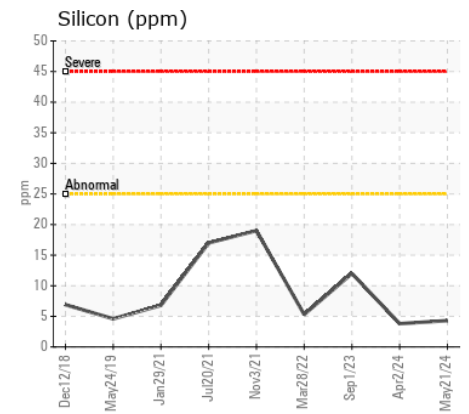
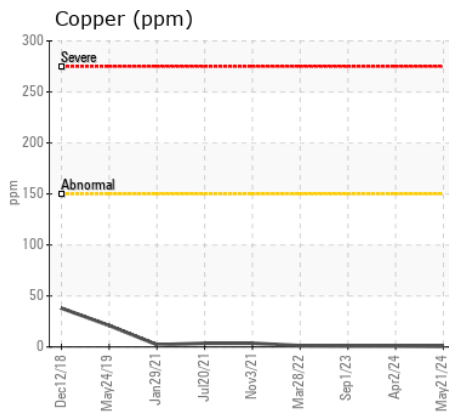
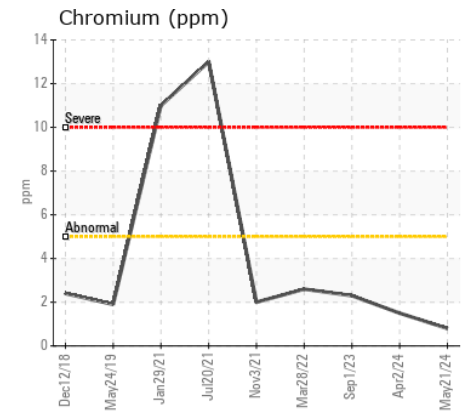
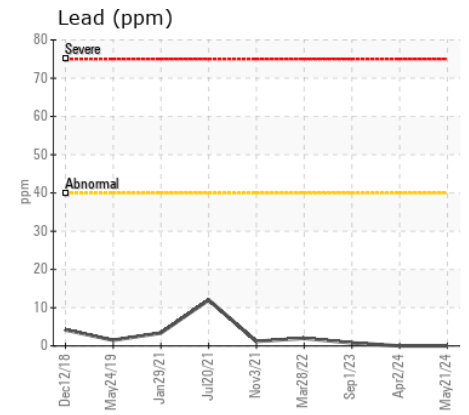
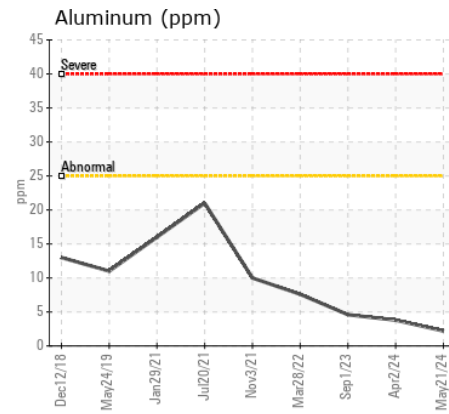
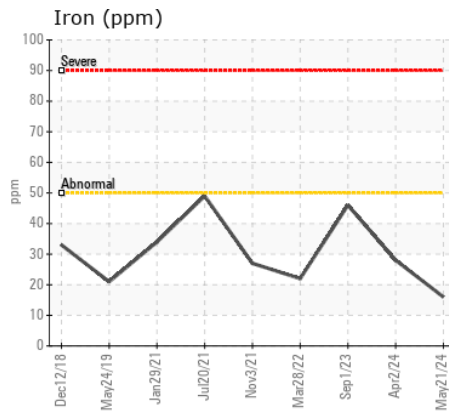
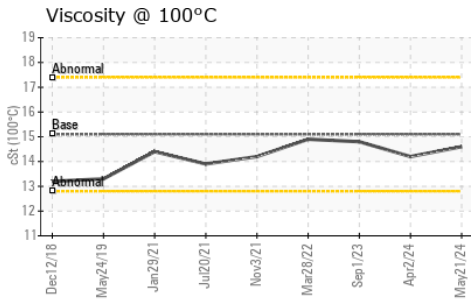
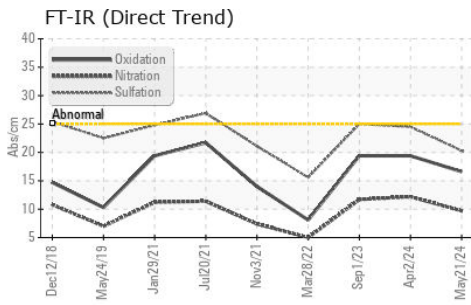
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	12
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	12.2	11.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	24.5	25.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	5	6
Boron	ppm	ASTM D5185(m)	50	<b>14</b>	7	8
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>52</b>	53	57
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)	560	<b>534</b>	554	557
Calcium	ppm	ASTM D5185(m)	1510	<b>1457</b>	1562	1547
Phosphorus	ppm	ASTM D5185(m)	780	<b>707</b>	703	762
Zinc	ppm	ASTM D5185(m)	870	<b>908</b>	900	907
Sulfur	ppm	ASTM D5185(m)	2040	<b>1950</b>	1963	1967
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.6</b>	19.4	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.6</b>	14.2	14.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118900  
**Lab Number** : 02636921  
**Unique Number** : 5786083  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**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.