



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**933006**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0096836</b>	GFL0084030	GFL0073142
Sample Date		Client Info		<b>23 Apr 2024</b>	13 Jul 2023	29 Mar 2023
Machine Age	hrs	Client Info		<b>3657</b>	1687	815
Oil Age	hrs	Client Info		<b>0</b>	600	600
Filter Age	hrs	Client Info		<b>1200</b>	600	600
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	SEVERE	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>19</b>	50	87
Chromium	ppm	ASTM D5185(m)	>5	<b>2</b>	▲ 20	5
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	2
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	<b>12</b>	▲ 73	24
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	3
Copper	ppm	ASTM D5185(m)	>150	<b>2</b>	4	23
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

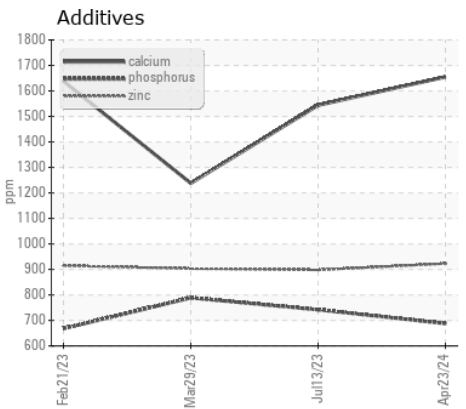
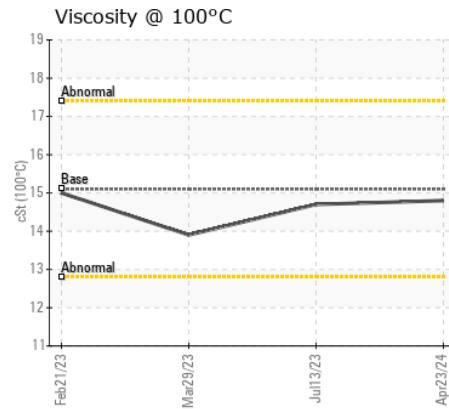
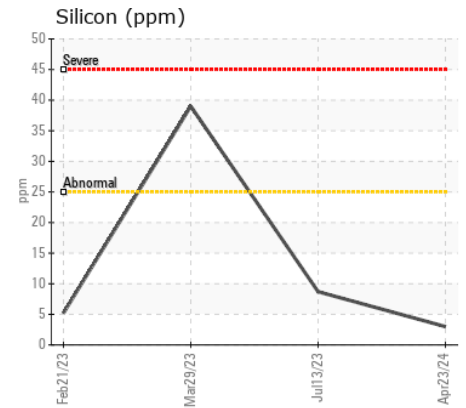
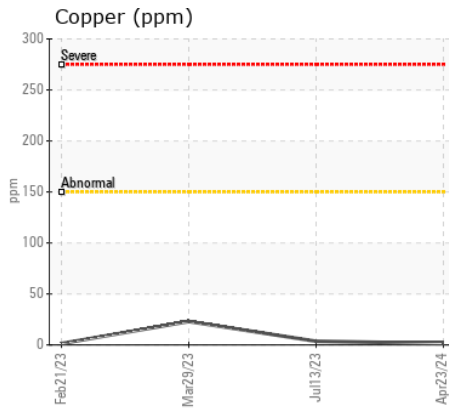
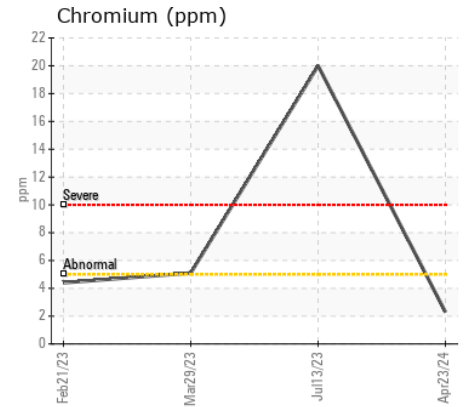
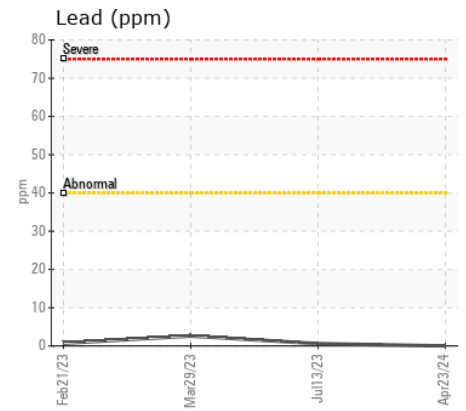
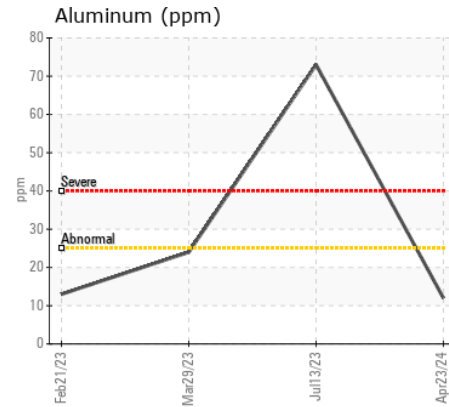
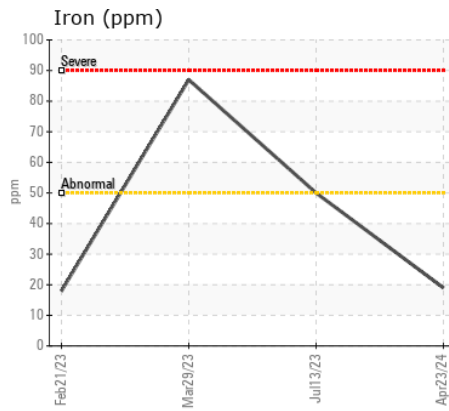
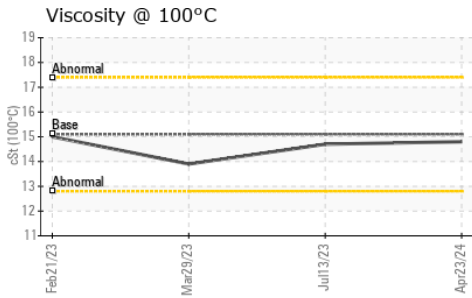
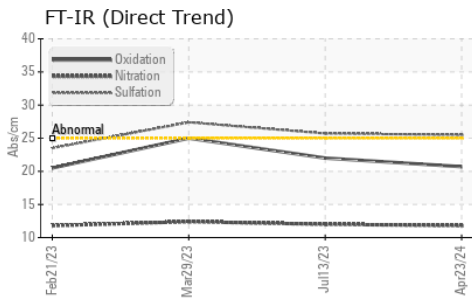
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	9	39
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	8	7
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>---</b>	0.0	0.0
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.8</b>	12.0	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.5</b>	25.7	27.4
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>9</b>	3	8
Boron	ppm	ASTM D5185(m)	50	<b>4</b>	8	5
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	<1	3
Molybdenum	ppm	ASTM D5185(m)	50	<b>54</b>	59	58
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	4	16
Magnesium	ppm	ASTM D5185(m)	560	<b>580</b>	595	789
Calcium	ppm	ASTM D5185(m)	1510	<b>1655</b>	1544	1238
Phosphorus	ppm	ASTM D5185(m)	780	<b>688</b>	742	789
Zinc	ppm	ASTM D5185(m)	870	<b>923</b>	898	903
Sulfur	ppm	ASTM D5185(m)	2040	<b>1999</b>	1965	2050
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.7</b>	22.0	25.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.8</b>	14.7	13.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0096836  
**Lab Number** : 02634858  
**Unique Number** : 5776011  
**Test Package** : MOB 1  
**Received** : 13 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 13 May 2024 - Wes Davis

**GFL Environmental - 574 - Vancouver Fleet**  
 70 Golden Drive,  
 Coquitlam, BC  
 CA V3K 6B5  
 Contact: Sanjay Kisun  
 skisun@gflenv.com  
 T: (604)529-4030  
 F: (604)529-4026

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.