



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

Machine Id  
**401123**  
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>GFL0096764</b>	GFL0096735	GFL0073038
Sample Date		Client Info		<b>24 Jun 2024</b>	07 Dec 2023	08 May 2023
Machine Age	hrs	Client Info		<b>9286</b>	8512	6722
Oil Age	hrs	Client Info		<b>0</b>	1200	1200
Filter Age	hrs	Client Info		<b>1200</b>	1200	1200
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>8</b>	8	24
Chromium	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
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>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	3	▲ 51
Copper	ppm	ASTM D5185(m)	>35	<b>10</b>	11	57
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

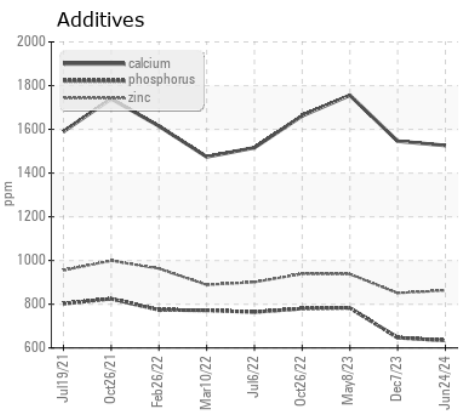
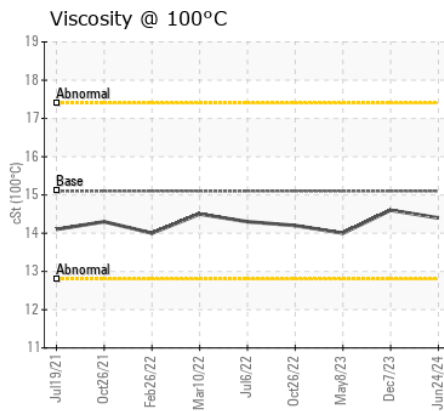
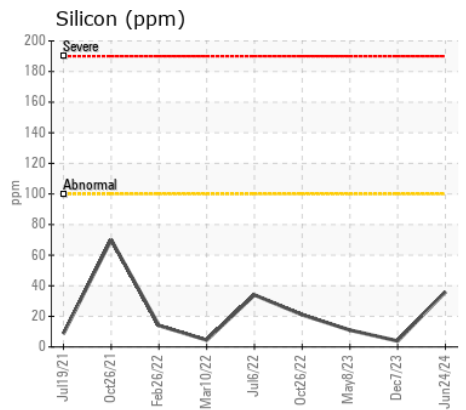
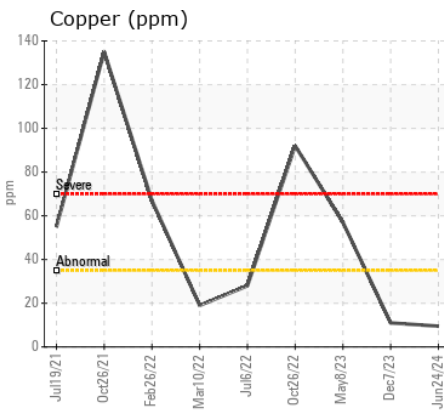
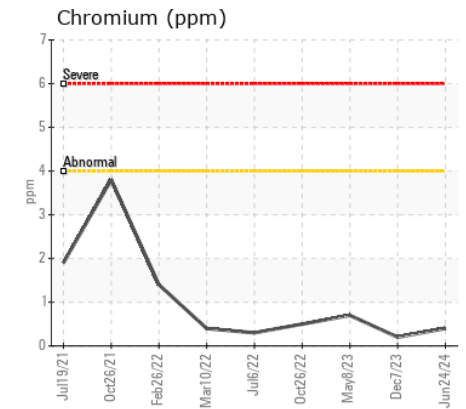
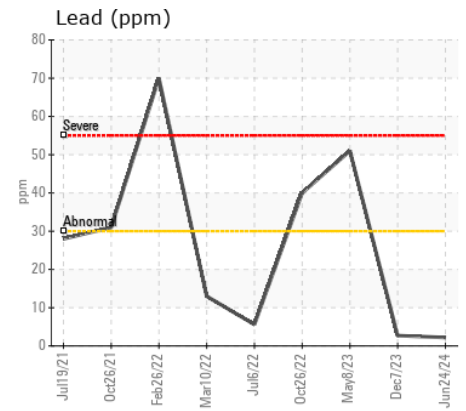
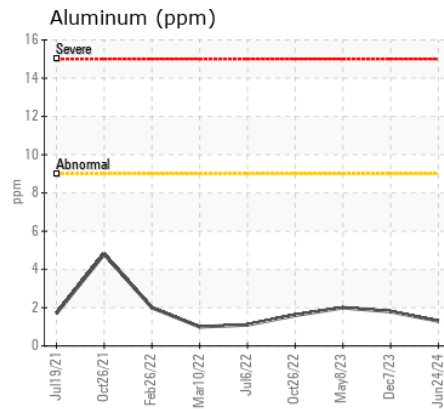
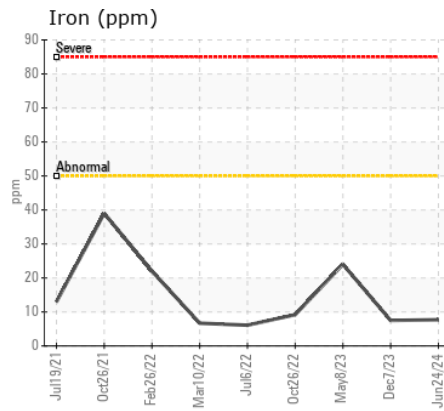
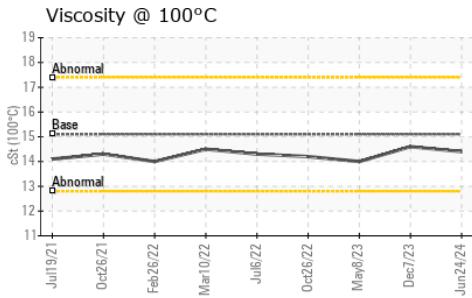
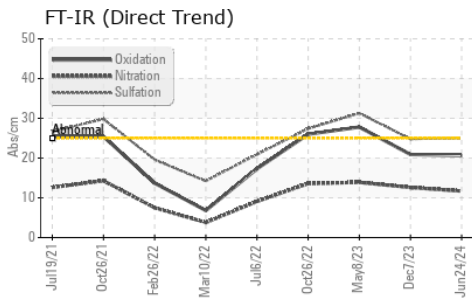
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>36</b>	4	11
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	4	8
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>---</b>	---	0.0
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.7</b>	12.6	13.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.0</b>	24.8	31.3
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>10</b>	7	18
Boron	ppm	ASTM D5185(m)	50	<b>8</b>	8	8
Barium	ppm	ASTM D5185(m)	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>48</b>	47	52
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	1
Magnesium	ppm	ASTM D5185(m)	560	<b>535</b>	513	582
Calcium	ppm	ASTM D5185(m)	1510	<b>1526</b>	1546	1756
Phosphorus	ppm	ASTM D5185(m)	780	<b>634</b>	647	783
Zinc	ppm	ASTM D5185(m)	870	<b>863</b>	851	938
Sulfur	ppm	ASTM D5185(m)	2040	<b>2026</b>	2050	2214
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.6</b>	20.9	27.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.4</b>	14.6	14.0



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0096764  
**Lab Number** : 02644765  
**Unique Number** : 5802304  
**Test Package** : MOB 1

**GFL Environmental - 574 - Coquitlam**  
 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.