



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

Machine Id  
**901012**  
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>GFL0118978</b>	GFL0101692	GFL0077991
Sample Date		Client Info		<b>09 Jun 2024</b>	28 Dec 2023	18 May 2023
Machine Age	hrs	Client Info		<b>16470</b>	15502	27164
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>19</b>	9	42
Chromium	ppm	ASTM D5185(m)	>4	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>1</b>	<1	1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>7</b>	3	7
Lead	ppm	ASTM D5185(m)	>30	<b>11</b>	2	5
Copper	ppm	ASTM D5185(m)	>35	<b>2</b>	<1	6
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	3
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

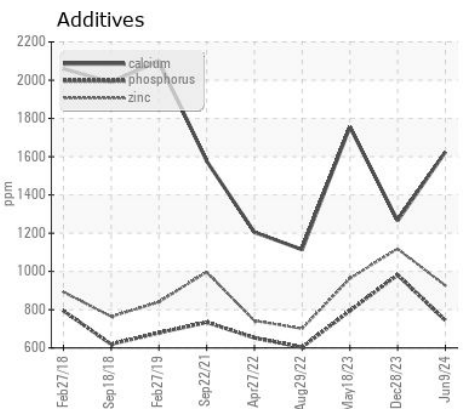
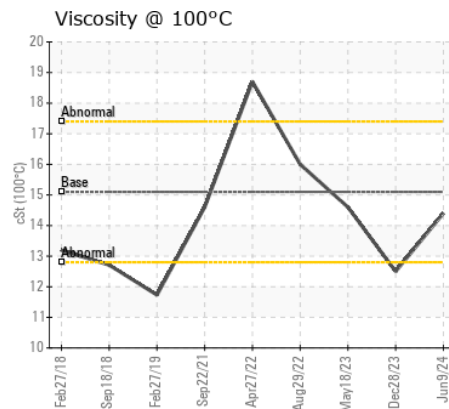
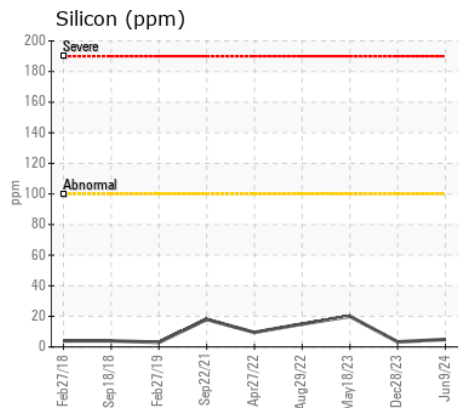
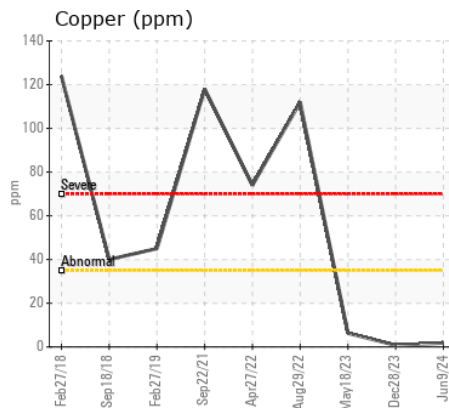
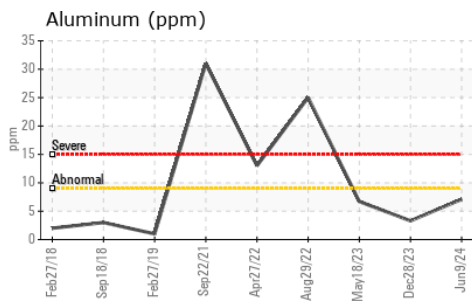
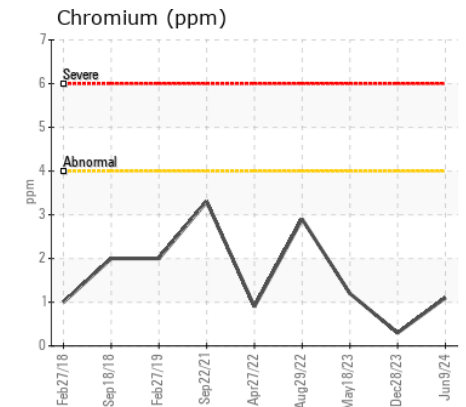
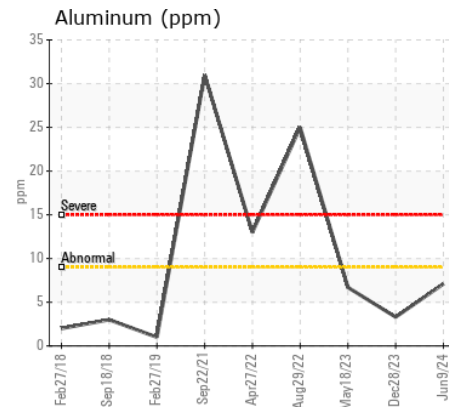
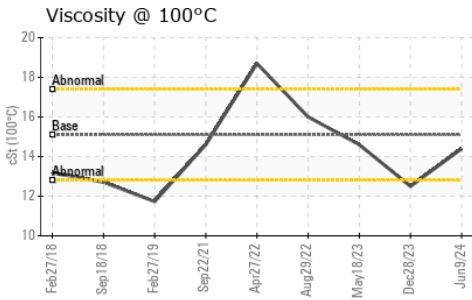
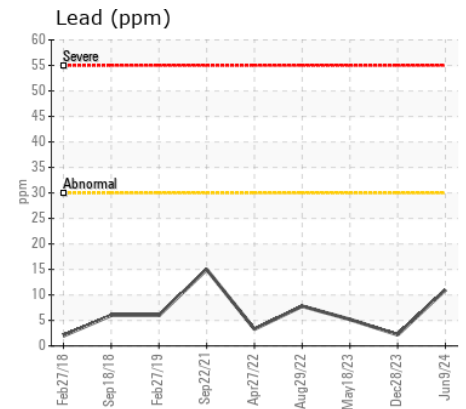
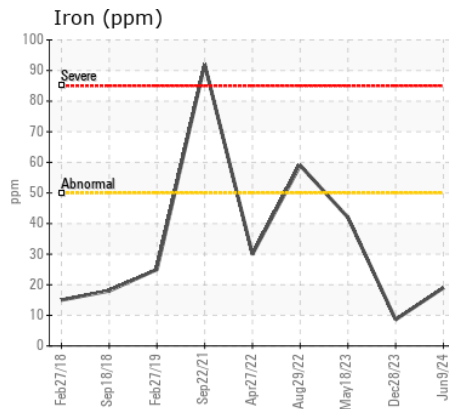
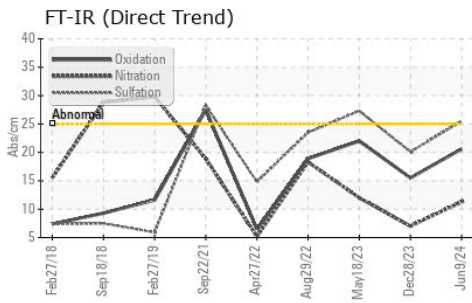
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>5</b>	3	20
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>---</b>	---	---
Soot %	%	ASTM D7844*		<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.3</b>	7.0	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.5</b>	20.1	27.3
Silt	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
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>10</b>	4	11
Boron	ppm	ASTM D5185(m)	50	<b>9</b>	5	6
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	0	6
Molybdenum	ppm	ASTM D5185(m)	50	<b>55</b>	57	56
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	0	6
Magnesium	ppm	ASTM D5185(m)	560	<b>597</b>	861	649
Calcium	ppm	ASTM D5185(m)	1510	<b>1625</b>	1265	1755
Phosphorus	ppm	ASTM D5185(m)	780	<b>744</b>	982	794
Zinc	ppm	ASTM D5185(m)	870	<b>926</b>	1118	963
Sulfur	ppm	ASTM D5185(m)	2040	<b>1935</b>	2588	2176
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.6</b>	15.5	22.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.4</b>	▲ 12.5	14.6



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118978  
**Lab Number** : 02642757  
**Unique Number** : 5800296  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GFL Environmental - 554 - Edmonton SW**  
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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.