



Machine Id  
**830002**  
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>GFL0112563</b>	GFL0101685	GFL0085941
Sample Date		Client Info		<b>01 May 2024</b>	29 Dec 2023	10 Jun 2023
Machine Age	hrs	Client Info		<b>10280</b>	9820	8625
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>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>20</b>	22	13
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	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---

**CONTAMINATION**

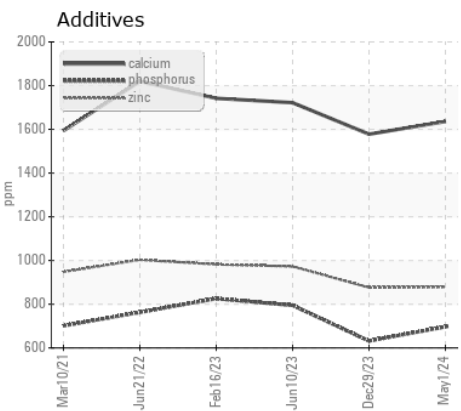
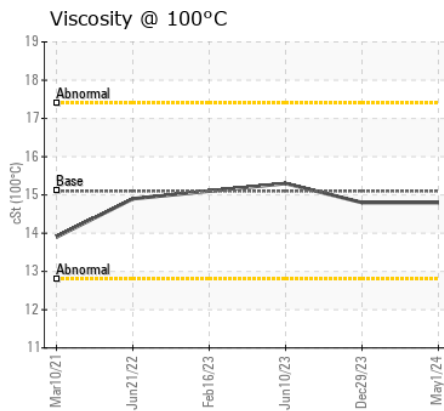
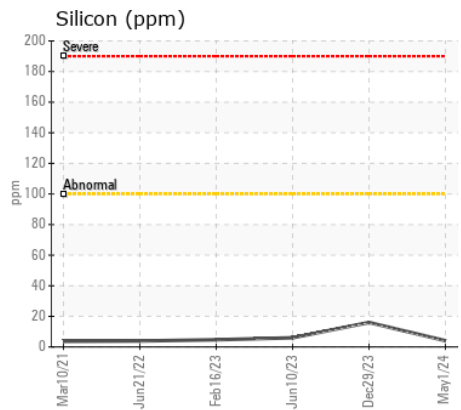
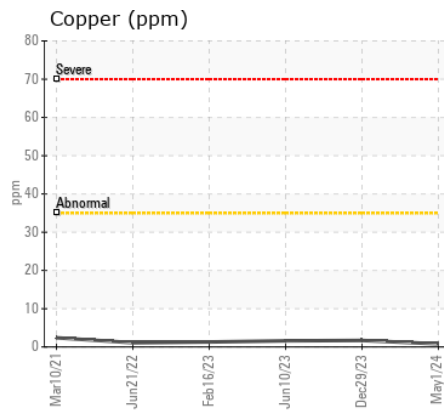
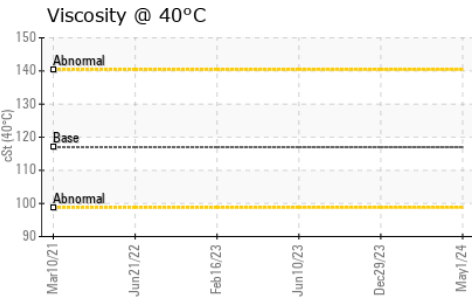
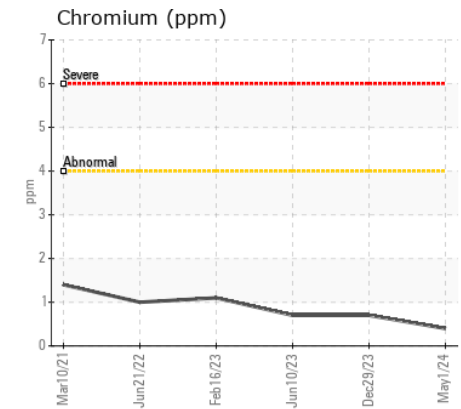
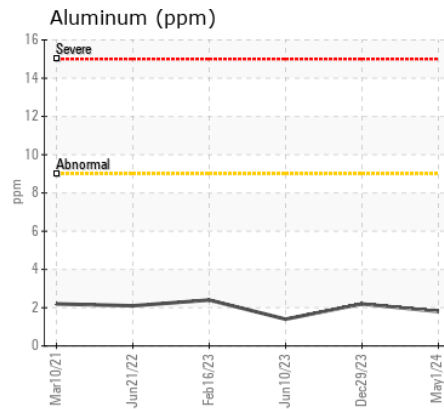
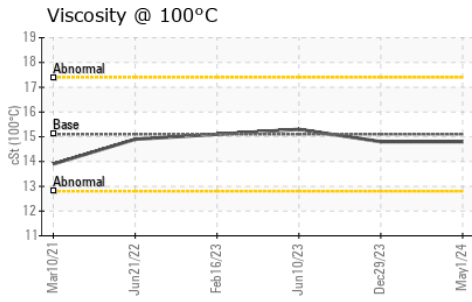
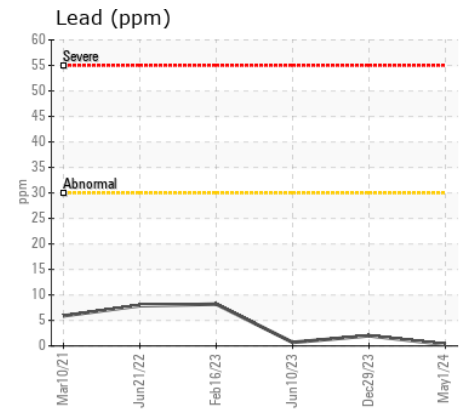
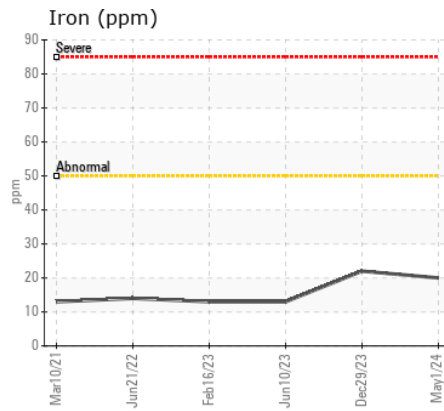
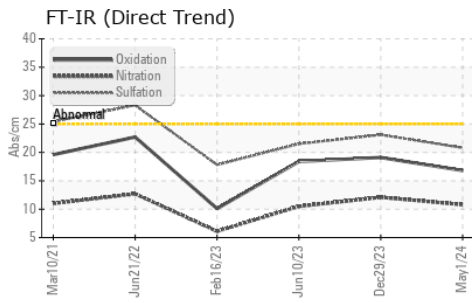
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	<b>4</b>	16	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	<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>10.8</b>	12.1	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.8</b>	23.1	21.5
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</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>6</b>	3	5
Boron	ppm	ASTM D5185(m)	50	<b>15</b>	7	16
Barium	ppm	ASTM D5185(m)	5	<b>&lt;1</b>	5	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>53</b>	53	55
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185(m)	560	<b>561</b>	510	603
Calcium	ppm	ASTM D5185(m)	1510	<b>1636</b>	1578	1722
Phosphorus	ppm	ASTM D5185(m)	780	<b>697</b>	632	795
Zinc	ppm	ASTM D5185(m)	870	<b>879</b>	876	973
Sulfur	ppm	ASTM D5185(m)	2040	<b>1981</b>	2089	2046
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.8</b>	19.1	18.4
Visc @ 40°C	cSt	ASTM D7279(m)	117.0	<b>117</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	<b>14.8</b>	14.8	15.3
Viscosity Index (VI)	Scale	ASTM D2270*	134	<b>129</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0112563  
**Lab Number** : 02634040  
**Unique Number** : 5775193  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

**GFL Environmental - 554 - Edmonton SW**  
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 Edmonton, AB  
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 Contact: Tim Greig  
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 T: (780)231-0521  
 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.