



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

Machine Id  
**946003**  
 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>GFL0113972</b>	GFL0080367	---
Sample Date		Client Info		<b>29 May 2024</b>	28 Nov 2023	---
Machine Age	hrs	Client Info		<b>4890</b>	3949	---
Oil Age	hrs	Client Info		<b>941</b>	3949	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>16</b>	18	---
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>35	<b>2</b>	3	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

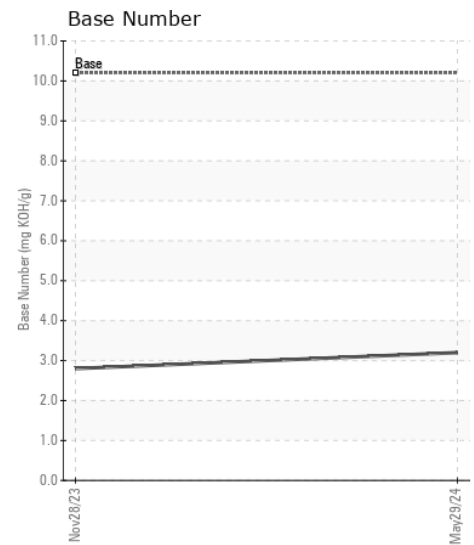
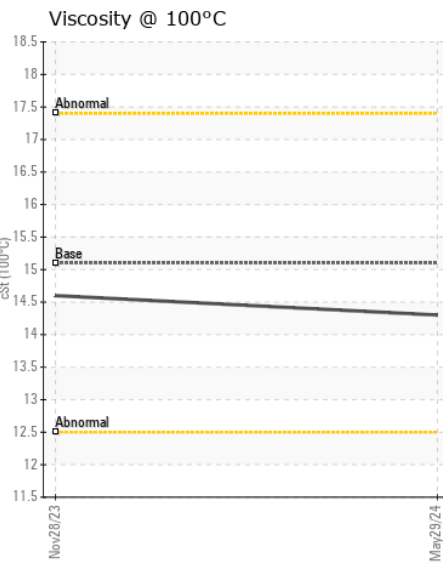
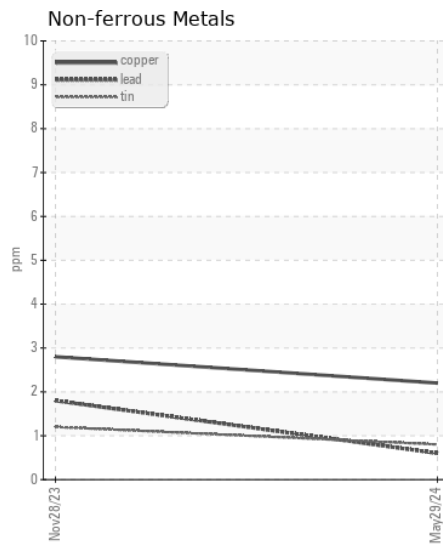
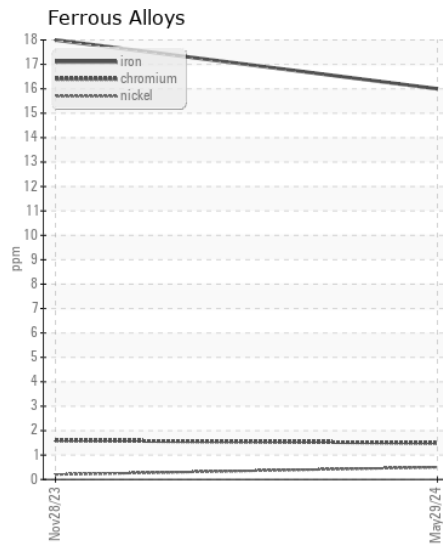
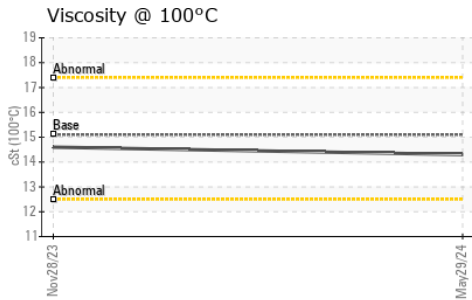
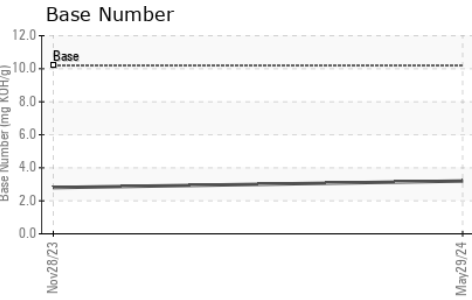
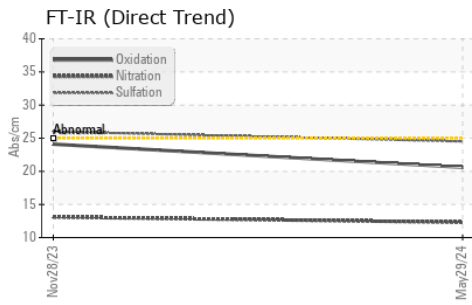
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>10</b>	17	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	11	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0.1</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.3</b>	13.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.5</b>	26.0	---
Silt	scalar	*Visual	NONE	<b>NONE</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	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>12</b>	19	---
Boron	ppm	ASTM D5185m	50	<b>6</b>	9	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>53</b>	55	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	560	<b>569</b>	609	---
Calcium	ppm	ASTM D5185m	1510	<b>1586</b>	1655	---
Phosphorus	ppm	ASTM D5185m	780	<b>860</b>	766	---
Zinc	ppm	ASTM D5185m	870	<b>1014</b>	965	---
Sulfur	ppm	ASTM D5185m	2040	<b>2717</b>	2387	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	24.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.2</b>	2.8	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.3</b>	14.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113972  
**Lab Number** : 06197441  
**Unique Number** : 11059564  
**Test Package** : FLEET

**Received** : 03 Jun 2024  
**Tested** : 04 Jun 2024  
**Diagnosed** : 04 Jun 2024 - Wes Davis

**GFL Environmental - 932 - Muskego HC**  
 W144 S6400 College Ct.  
 Muskego, WI  
 US 53150

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F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)