



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



Area  
**(TB7412) {UNASSIGNED}**  
Machine Id  
**7983**  
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>GFL0113003</b>	GFL0098429	---
Sample Date		Client Info		<b>11 Mar 2024</b>	04 Dec 2023	---
Machine Age	hrs	Client Info		<b>2322</b>	1742	---
Oil Age	hrs	Client Info		<b>2322</b>	1742	---
Filter Age	hrs	Client Info		<b>0</b>	1742	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

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

**CONTAMINATION**

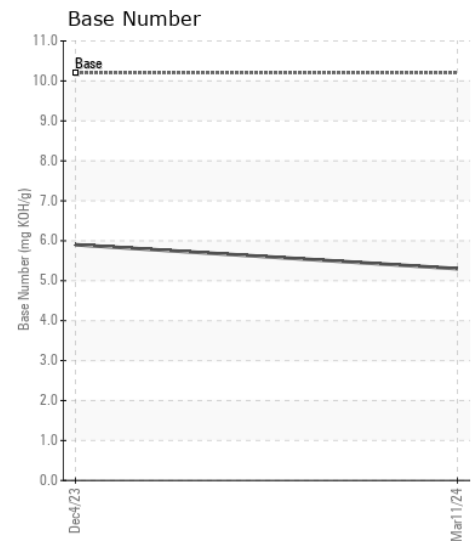
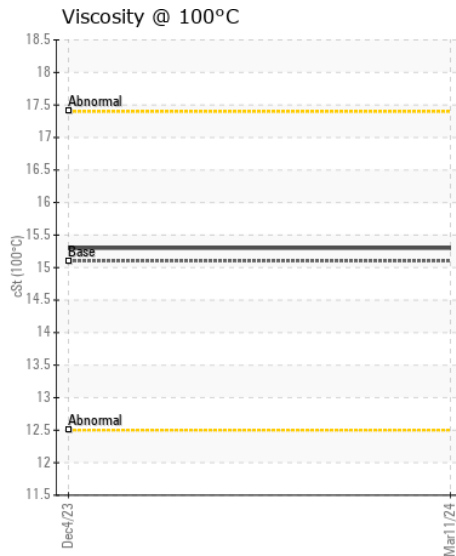
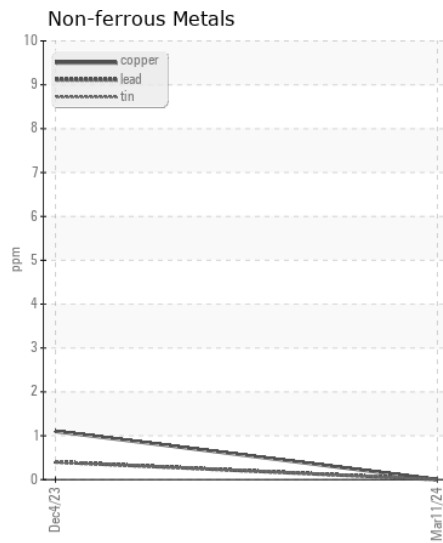
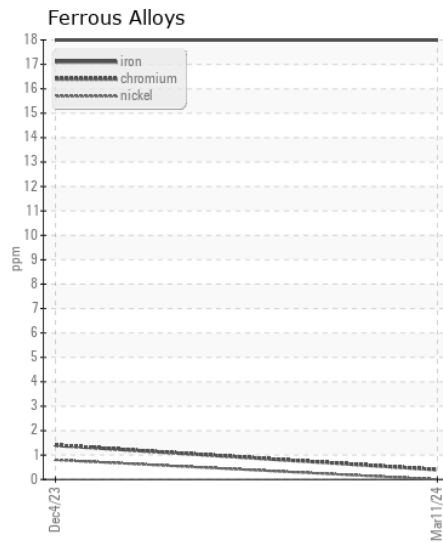
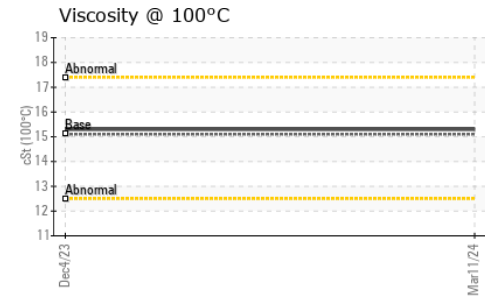
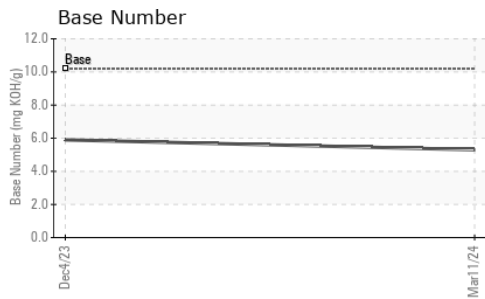
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	11.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	20.8	---
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>7</b>	5	---
Boron	ppm	ASTM D5185m	50	<b>13</b>	12	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	12	---
Molybdenum	ppm	ASTM D5185m	50	<b>60</b>	60	---
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	560	<b>629</b>	588	---
Calcium	ppm	ASTM D5185m	1510	<b>2008</b>	1708	---
Phosphorus	ppm	ASTM D5185m	780	<b>838</b>	753	---
Zinc	ppm	ASTM D5185m	870	<b>1155</b>	1032	---
Sulfur	ppm	ASTM D5185m	2040	<b>3131</b>	2644	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.8</b>	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.3</b>	5.9	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>15.3</b>	15.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113003  
**Lab Number** : 06123341  
**Unique Number** : 10937492  
**Test Package** : FLEET

**Received** : 20 Mar 2024  
**Tested** : 21 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Wes Davis

**GFL Environmental - 918 - Hartland HC**  
 630 E Industrial Drive  
 Hartland, WI  
 US 53029

Contact: David McCall  
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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)

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