



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

Machine Id  
**930012**  
 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>GFL0082439</b>	GFL0082405	GFL0050766
Sample Date		Client Info		<b>05 Jan 2024</b>	05 Jul 2023	25 Apr 2023
Machine Age	hrs	Client Info		<b>7157</b>	7157	0
Oil Age	hrs	Client Info		<b>7157</b>	1215	0
Filter Age	hrs	Client Info		<b>7157</b>	1215	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>11</b>	8	5
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>30	<b>11</b>	17	1
Copper	ppm	ASTM D5185m	>35	<b>2</b>	2	0
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

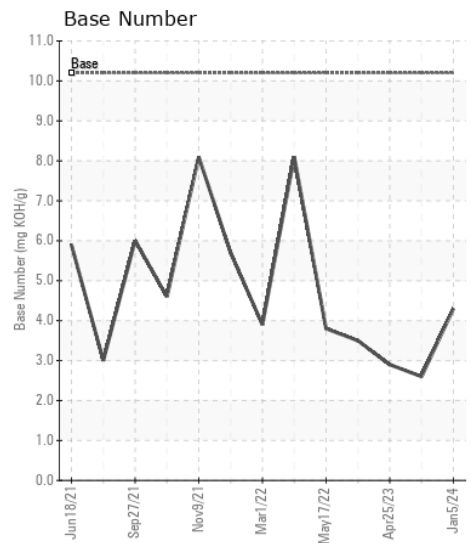
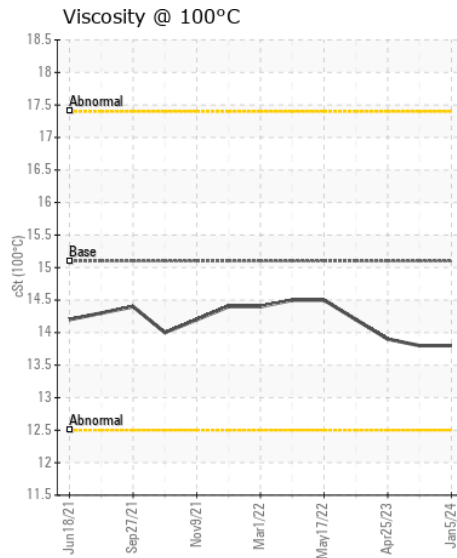
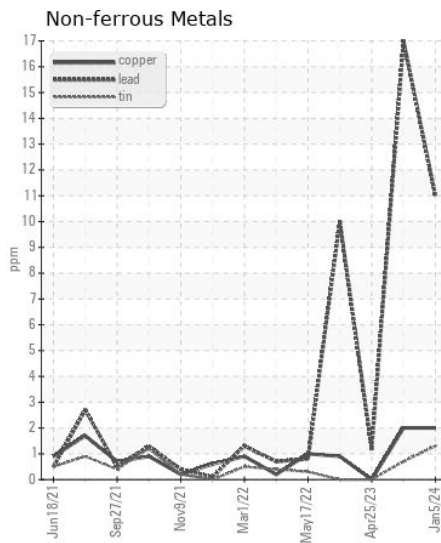
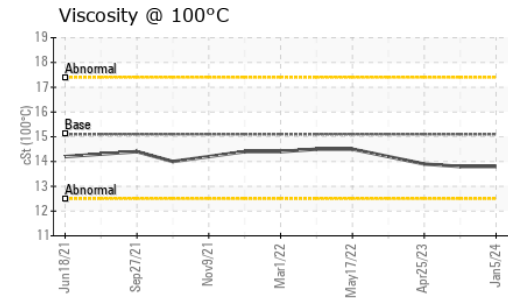
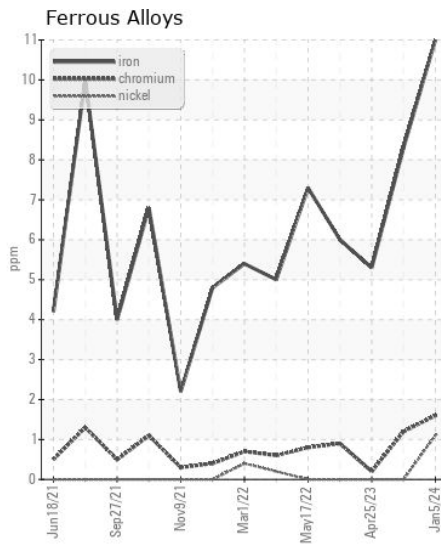
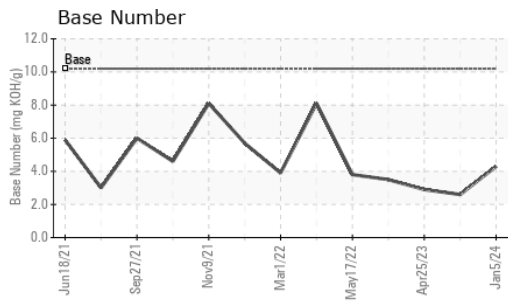
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>13</b>	7	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.3</b>	12.0	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.4</b>	28.2	25.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	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>6</b>	10	8
Boron	ppm	ASTM D5185m	50	<b>8</b>	8	6
Barium	ppm	ASTM D5185m	5	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	55	55
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>602</b>	607	592
Calcium	ppm	ASTM D5185m	1510	<b>1698</b>	1806	1691
Phosphorus	ppm	ASTM D5185m	780	<b>765</b>	808	767
Zinc	ppm	ASTM D5185m	870	<b>1020</b>	1014	1059
Sulfur	ppm	ASTM D5185m	2040	<b>2675</b>	2880	2682
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.9</b>	25.7	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.3</b>	2.6	2.9
Visc @ 100°C	cSt	ASTM D445	15.1	<b>13.8</b>	13.8	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0082439 **Received** : 09 Jan 2024  
**Lab Number** : 06055190 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821139 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 007 - Brunswick**  
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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)