



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

Machine Id  
**849010**  
 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>GFL0113999</b>	GFL0086723	GFL0065039
Sample Date		Client Info		<b>24 Jun 2024</b>	01 Feb 2024	03 Dec 2022
Machine Age	hrs	Client Info		<b>12032</b>	11211	8822
Oil Age	hrs	Client Info		<b>821</b>	11211	8822
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
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 D5185m	>50	<b>14</b>	20	19
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	3	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	2
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	2	7
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
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**

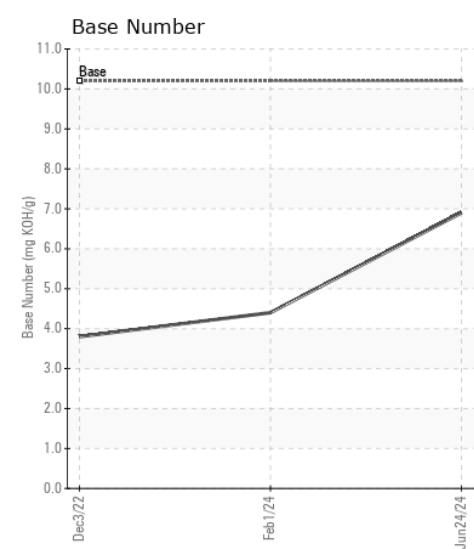
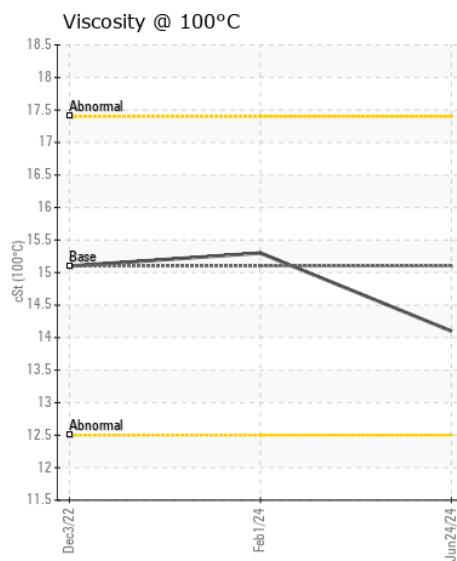
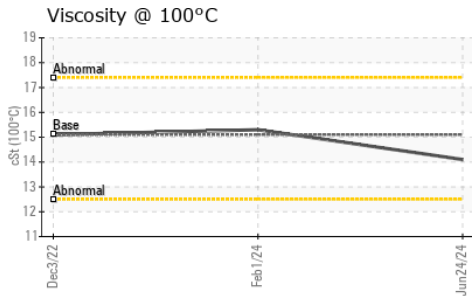
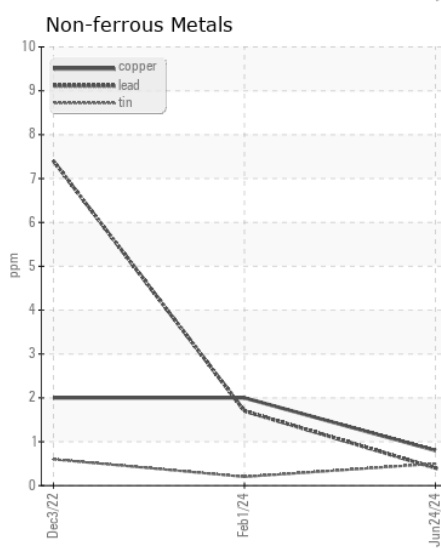
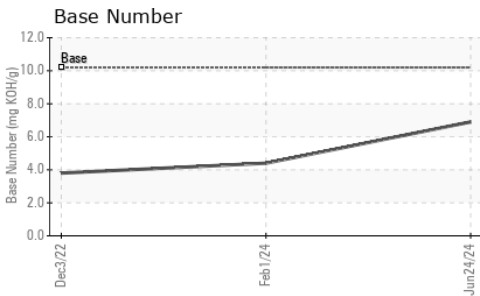
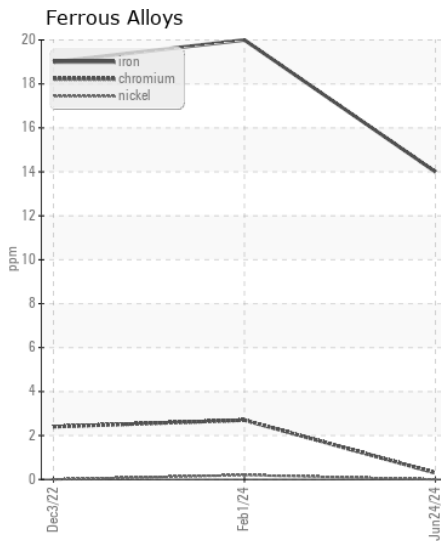
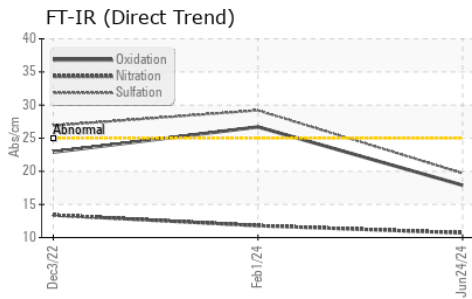
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>21</b>	9	11
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	8	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	11.8	13.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	29.2	26.9
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>3</b>	17	12
Boron	ppm	ASTM D5185m	50	<b>18</b>	10	73
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m	50	<b>53</b>	58	61
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>787</b>	614	599
Calcium	ppm	ASTM D5185m	1510	<b>1222</b>	1583	1793
Phosphorus	ppm	ASTM D5185m	780	<b>556</b>	866	831
Zinc	ppm	ASTM D5185m	870	<b>886</b>	1022	1056
Sulfur	ppm	ASTM D5185m	2040	<b>2709</b>	2616	2793
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	26.7	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>6.9</b>	4.4	3.8
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.1</b>	15.3	15.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113999      **Received** : 27 Jun 2024  
**Lab Number** : 06222072      **Tested** : 28 Jun 2024  
**Unique Number** : 11100269      **Diagnosed** : 28 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 932 - Muskego HC**  
 W144 S6400 College Ct.  
 Muskego, WI  
 US 53150  
 Contact: Brian Schlomann  
 brian.schlomann@gflenv.com  
 T: (262)510-4586  
 F:

Certificate L2367  
 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)