



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

Machine Id  
**731121**  
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>GFL0103298</b>	GFL0103278	GFL0099957
Sample Date		Client Info		<b>11 Jan 2024</b>	02 Jan 2024	28 Nov 2023
Machine Age	hrs	Client Info		<b>6979</b>	6921	6714
Oil Age	hrs	Client Info		<b>1200</b>	0	0
Filter Age	hrs	Client Info		<b>1200</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>6</b>	16	6
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	<1
Lead	ppm	ASTM D5185m	>30	<b>2</b>	7	2
Copper	ppm	ASTM D5185m	>35	<b>0</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	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**

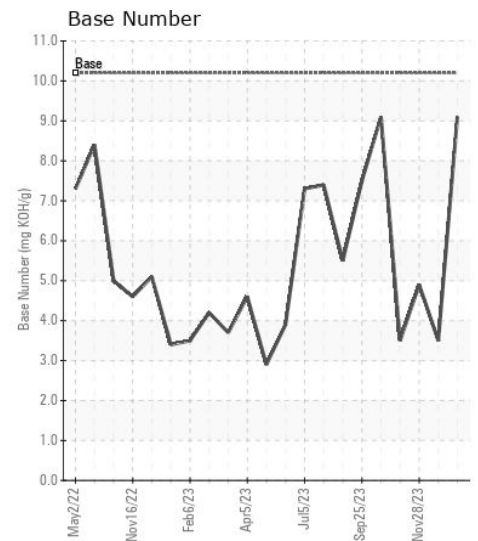
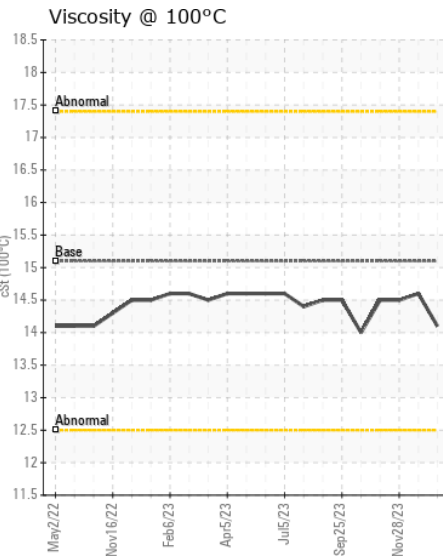
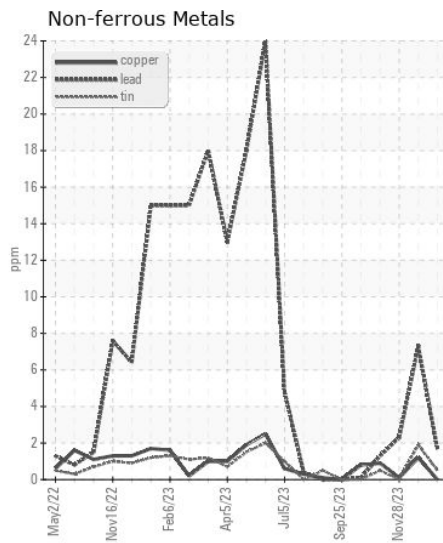
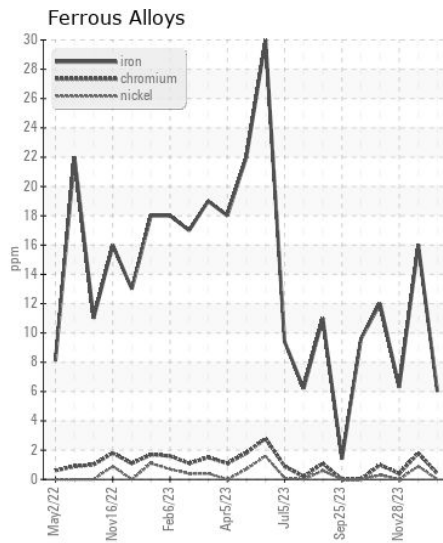
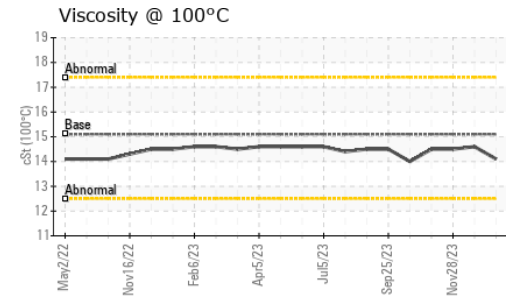
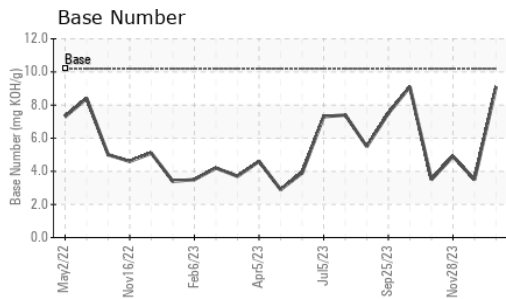
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>3</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.5</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.7</b>	12.4	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.6</b>	26.0	23.4
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>25</b>	10	6
Boron	ppm	ASTM D5185m	50	<b>6</b>	11	23
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>58</b>	62	53
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	560	<b>905</b>	634	592
Calcium	ppm	ASTM D5185m	1510	<b>1054</b>	1856	1710
Phosphorus	ppm	ASTM D5185m	780	<b>1081</b>	850	676
Zinc	ppm	ASTM D5185m	870	<b>1239</b>	1092	994
Sulfur	ppm	ASTM D5185m	2040	<b>3106</b>	2572	2368
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.4</b>	21.5	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>9.1</b>	3.5	4.9
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.1</b>	14.6	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103298 **Received** : 16 Jan 2024  
**Lab Number** : 06060741 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832123 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**GFL Environmental - 836 - Kansas City Hauling**  
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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)