



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

Machine Id  
**945028-260277**  
 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>GFL0121745</b>	GFL0106743	GFL0084637
Sample Date		Client Info		<b>01 Jul 2024</b>	17 Apr 2024	19 Oct 2023
Machine Age	hrs	Client Info		<b>819</b>	217	149698
Oil Age	hrs	Client Info		<b>600</b>	0	0
Filter Age	hrs	Client Info		<b>600</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	<b>6</b>	17	15
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	3	1
Lead	ppm	ASTM D5185m	>30	<b>0</b>	3	0
Copper	ppm	ASTM D5185m	>35	<b>2</b>	4	6
Tin	ppm	ASTM D5185m	>4	<b>0</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

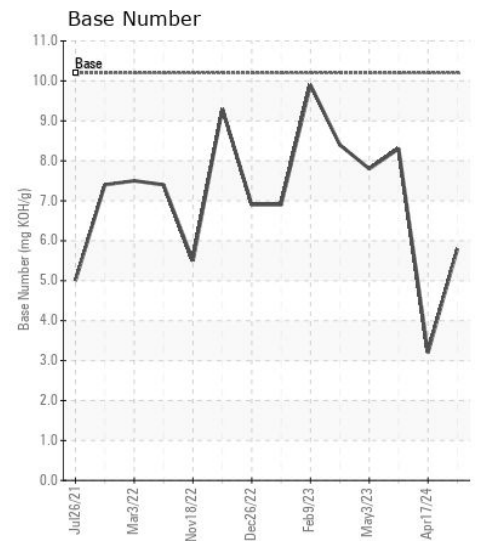
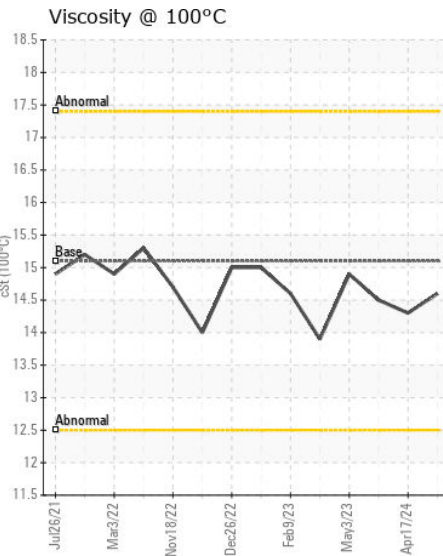
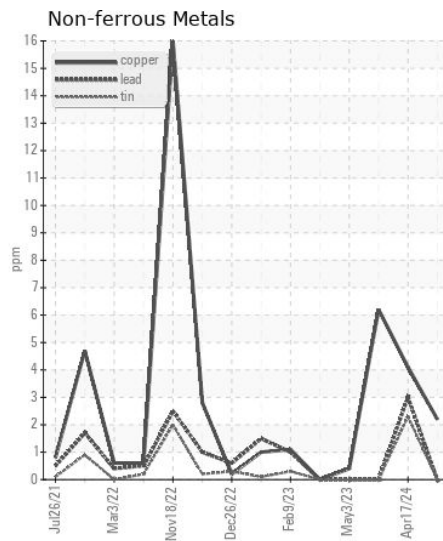
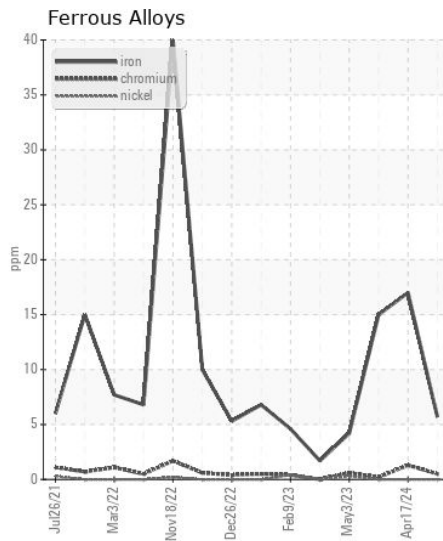
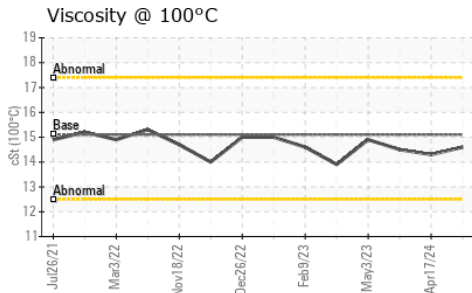
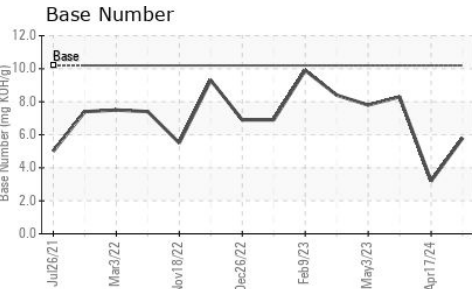
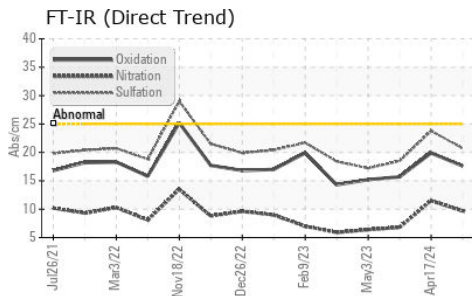
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>2</b>	10	24
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	10	6
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	11.5	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.7</b>	23.8	18.5
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>12</b>	26	9
Boron	ppm	ASTM D5185m	50	<b>14</b>	2	37
Barium	ppm	ASTM D5185m	5	<b>0</b>	1	8
Molybdenum	ppm	ASTM D5185m	50	<b>53</b>	66	46
Manganese	ppm	ASTM D5185m	0	<b>1</b>	3	8
Magnesium	ppm	ASTM D5185m	560	<b>553</b>	555	513
Calcium	ppm	ASTM D5185m	1510	<b>1689</b>	1695	1453
Phosphorus	ppm	ASTM D5185m	780	<b>668</b>	699	716
Zinc	ppm	ASTM D5185m	870	<b>847</b>	920	855
Sulfur	ppm	ASTM D5185m	2040	<b>2350</b>	2728	2281
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.6</b>	19.9	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.8</b>	3.2	8.3
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	14.3	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0121745  
**Lab Number** : 06228392  
**Unique Number** : 11111885  
**Test Package** : FLEET

**Received** : 05 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Wes Davis

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Jose Gonzalez  
 jgonzalez2@gflenv.com

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)

T:  
F: