



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



Machine Id  
**834051**

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>GFL0118831</b>	GFL0118815	GFL0114194
Sample Date		Client Info		<b>17 May 2024</b>	26 Apr 2024	03 Apr 2024
Machine Age	hrs	Client Info		<b>1459</b>	1309	1170
Oil Age	hrs	Client Info		<b>1320</b>	1170	1170
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>12</b>	11	▲ 73
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	5
Copper	ppm	ASTM D5185m	>150	<b>3</b>	0	17
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	4
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

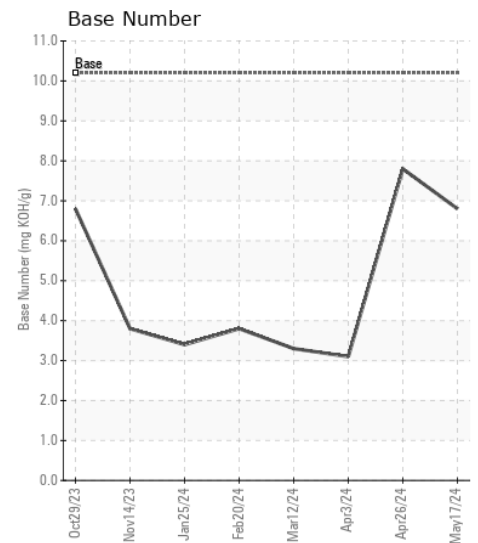
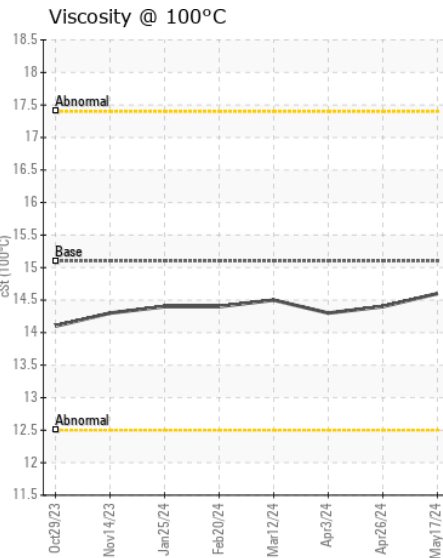
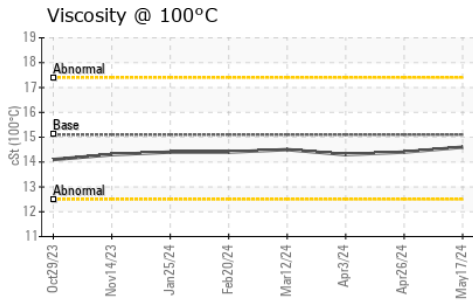
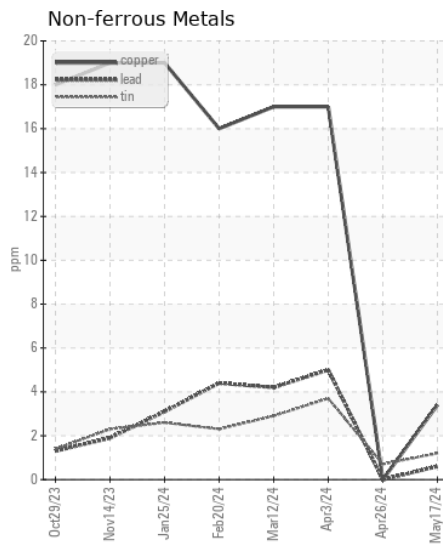
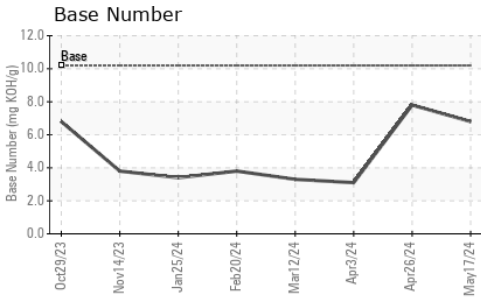
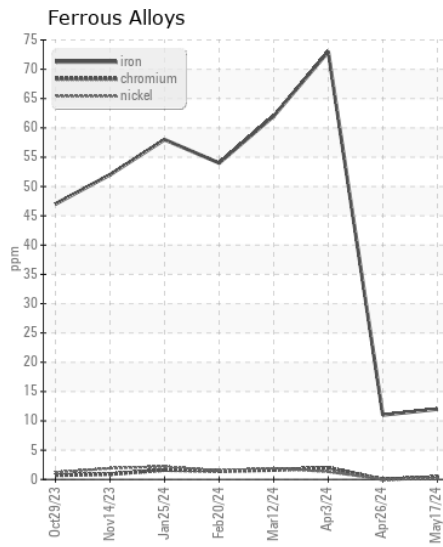
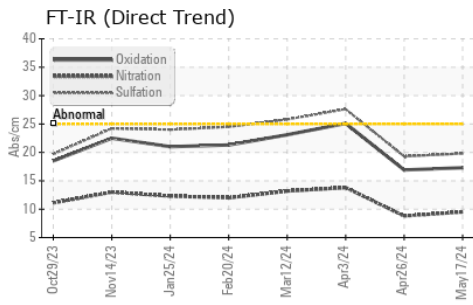
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	25
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	8.8	13.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.8</b>	19.3	27.6
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	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>	0.2%	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>	4	6
Boron	ppm	ASTM D5185m	50	<b>25</b>	31	6
Barium	ppm	ASTM D5185m	5	<b>0</b>	<1	3
Molybdenum	ppm	ASTM D5185m	50	<b>52</b>	49	64
Manganese	ppm	ASTM D5185m	0	<b>2</b>	1	15
Magnesium	ppm	ASTM D5185m	560	<b>625</b>	599	905
Calcium	ppm	ASTM D5185m	1510	<b>1576</b>	1508	1385
Phosphorus	ppm	ASTM D5185m	780	<b>819</b>	754	867
Zinc	ppm	ASTM D5185m	870	<b>976</b>	915	1111
Sulfur	ppm	ASTM D5185m	2040	<b>2877</b>	2691	2310
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	16.9	25.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>6.8</b>	7.8	3.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	14.4	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0118831  
**Lab Number** : 06185811  
**Unique Number** : 11042563  
**Test Package** : FLEET

**Received** : 21 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 22 May 2024 - Wes Davis

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: Robert Hart

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: (580)461-1509

F: