



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



Machine Id  
**834055**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

**RECOMMENDATION**

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118791</b>	GFL0118846	GFL0114133
Sample Date		Client Info		<b>08 May 2024</b>	30 Apr 2024	01 Apr 2024
Machine Age	hrs	Client Info		<b>1170</b>	1122	992
Oil Age	hrs	Client Info		<b>1170</b>	1122	992
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>61</b>	60	60
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	3	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>9	<b>5</b>	5	5
Lead	ppm	ASTM D5185m	>30	<b>2</b>	4	2
Copper	ppm	ASTM D5185m	>35	<b>20</b>	16	18
Tin	ppm	ASTM D5185m	>4	<b>3</b>	4	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

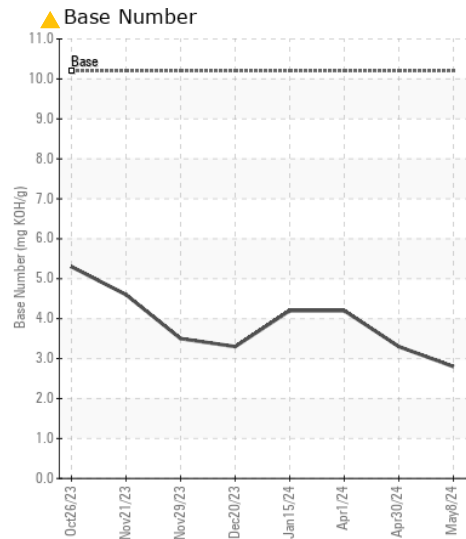
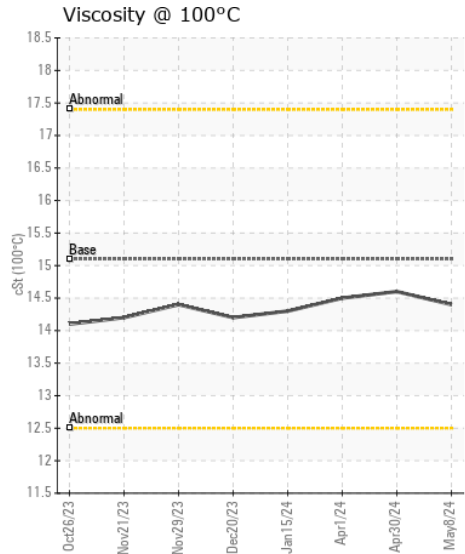
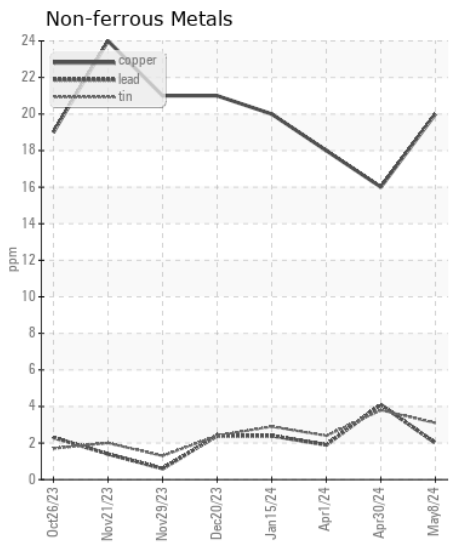
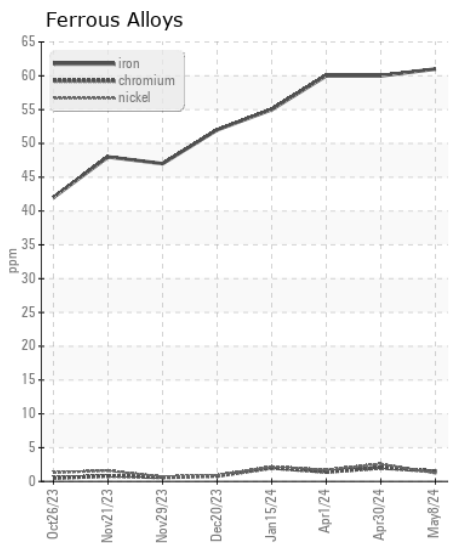
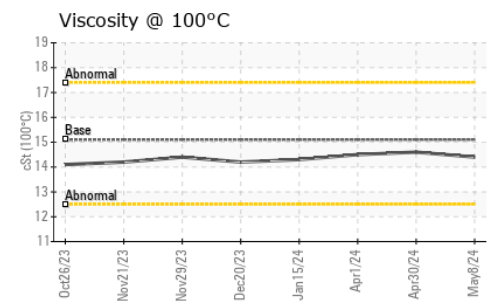
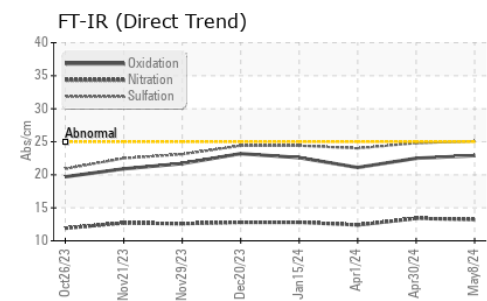
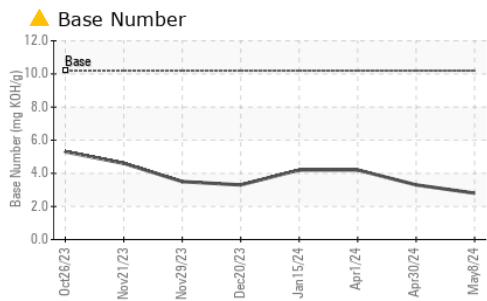
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>24</b>	21	24
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	5
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>13.2</b>	13.4	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.1</b>	24.8	24.0
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 level is low.

Sodium	ppm	ASTM D5185m		<b>7</b>	7	6
Boron	ppm	ASTM D5185m	50	<b>8</b>	4	17
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	2	5
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	53	58
Manganese	ppm	ASTM D5185m	0	<b>13</b>	13	13
Magnesium	ppm	ASTM D5185m	560	<b>802</b>	816	737
Calcium	ppm	ASTM D5185m	1510	<b>1405</b>	1541	1412
Phosphorus	ppm	ASTM D5185m	780	<b>766</b>	827	782
Zinc	ppm	ASTM D5185m	870	<b>981</b>	1040	984
Sulfur	ppm	ASTM D5185m	2040	<b>2596</b>	2876	2529
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.9</b>	22.5	21.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>2.8</b>	3.3	4.2
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.4</b>	14.6	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0118791  
**Lab Number** : 06176743  
**Unique Number** : 11022796  
**Test Package** : FLEET

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Angela Borella

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO  
 US 64701  
 Contact: SARA PATRICK  
 spatrick@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)