



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



Machine Id  
**934023**  
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>GFL0124085</b>	GFL0120196	GFL0120178
Sample Date		Client Info		<b>05 Jul 2024</b>	12 Jun 2024	16 May 2024
Machine Age	hrs	Client Info		<b>2516</b>	2355	2209
Oil Age	hrs	Client Info		<b>0</b>	0	0
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>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>18</b>	12	▲ 53
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	▲ 4
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	3
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	8	▲ 44
Lead	ppm	ASTM D5185m	>30	<b>3</b>	16	11
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	9	6
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

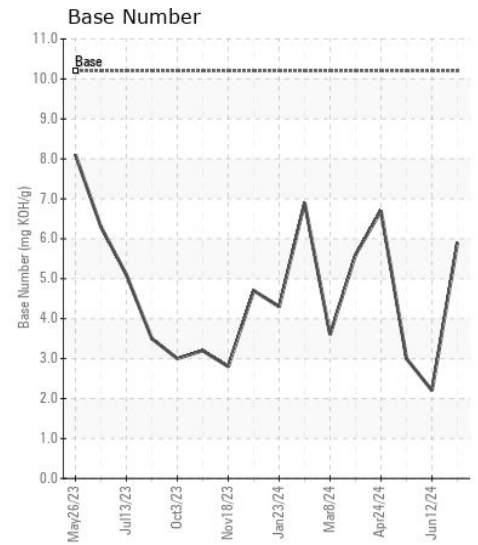
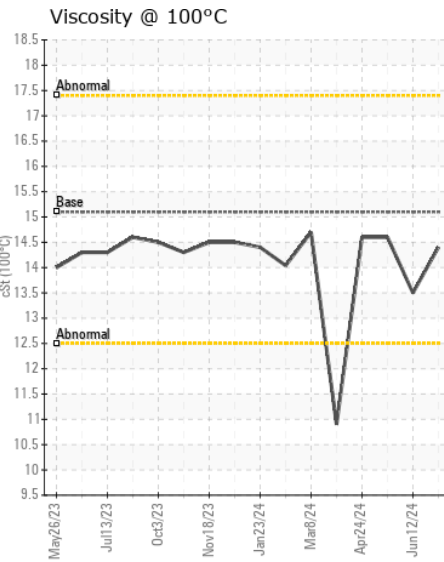
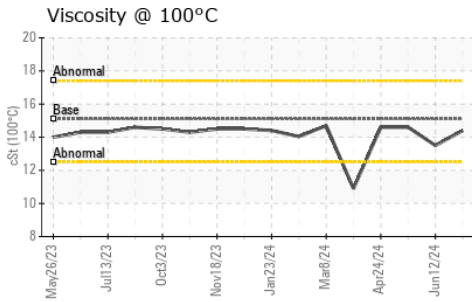
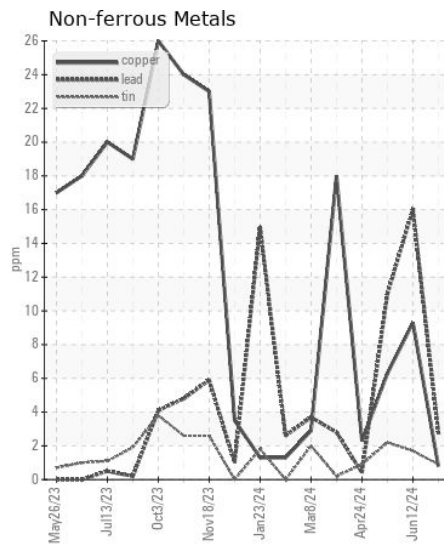
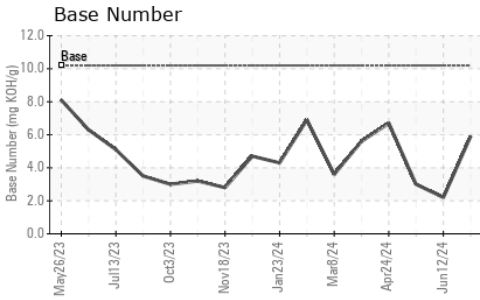
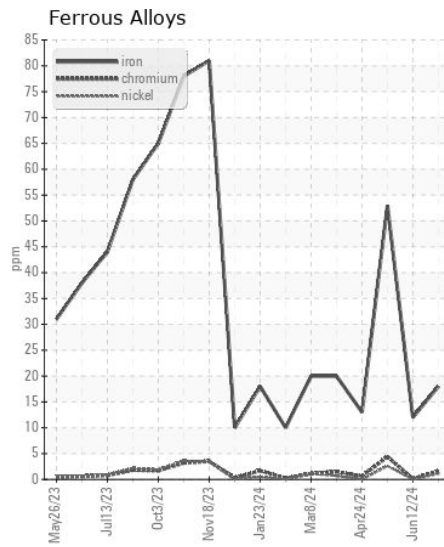
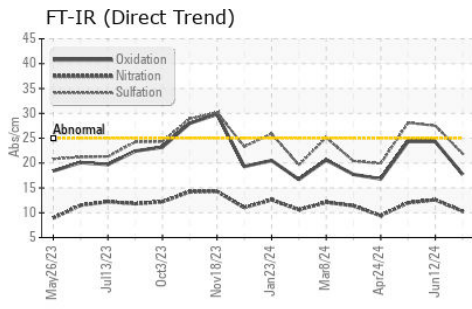
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>8</b>	11	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	24
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>10.3</b>	12.6	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	27.5	28.1
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>8</b>	6	5
Boron	ppm	ASTM D5185m	50	<b>15</b>	10	6
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>52</b>	56	67
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	3
Magnesium	ppm	ASTM D5185m	560	<b>565</b>	584	675
Calcium	ppm	ASTM D5185m	1510	<b>1582</b>	1639	1855
Phosphorus	ppm	ASTM D5185m	780	<b>781</b>	800	997
Zinc	ppm	ASTM D5185m	870	<b>973</b>	976	1157
Sulfur	ppm	ASTM D5185m	2040	<b>2482</b>	2736	2950
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.7</b>	24.3	24.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.9</b>	▲ 2.2	3.0
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.4</b>	13.5	14.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124085  
**Lab Number** : 06231996  
**Unique Number** : 11115489  
**Test Package** : FLEET

**Received** : 10 Jul 2024  
**Tested** : 10 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Don Baldridge

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@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)

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F: