



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

Area  
**(TJX4156)**

Machine Id  
**934056**

Component  
**1 Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: Engine oil sample )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103944</b>	GFL0103958	---
Sample Date		Client Info		<b>14 Feb 2024</b>	09 Jan 2024	---
Machine Age	hrs	Client Info		<b>1407</b>	1174	---
Oil Age	hrs	Client Info		<b>1407</b>	1174	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>11</b>	▲ 64	---
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>8</b>	4	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	12	---
Copper	ppm	ASTM D5185m	>35	<b>2</b>	2	---
Tin	ppm	ASTM D5185m	>4	<b>1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

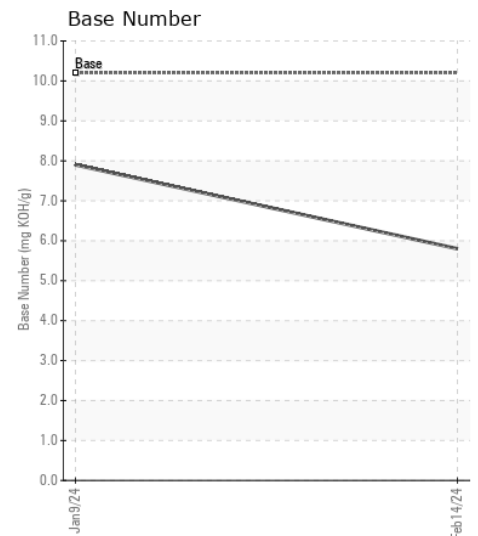
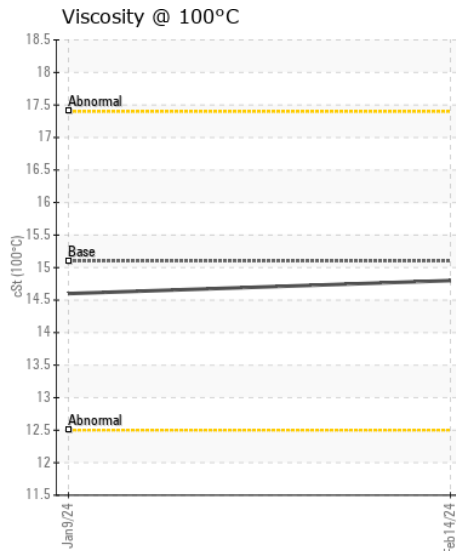
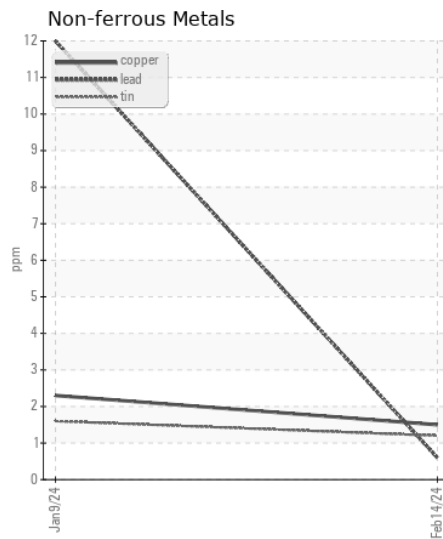
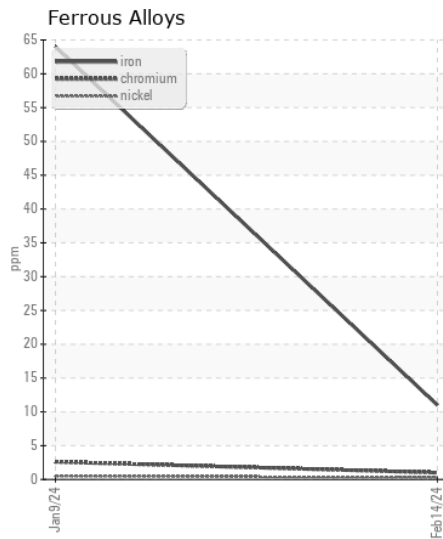
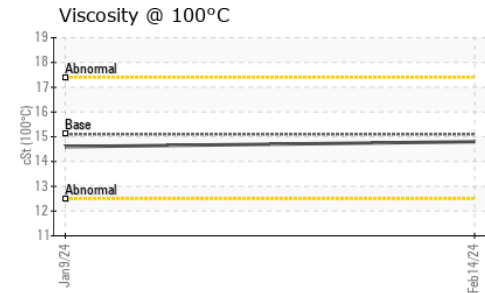
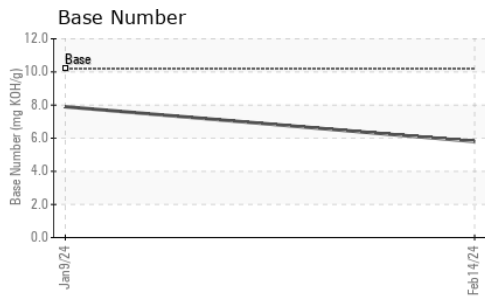
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>7</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>27</b>	2	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0.3</b>	2.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	13.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.7</b>	27.0	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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>5</b>	13	---
Boron	ppm	ASTM D5185m	50	<b>15</b>	10	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>49</b>	68	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	560	<b>552</b>	996	---
Calcium	ppm	ASTM D5185m	1510	<b>1536</b>	1278	---
Phosphorus	ppm	ASTM D5185m	780	<b>730</b>	1148	---
Zinc	ppm	ASTM D5185m	870	<b>918</b>	1385	---
Sulfur	ppm	ASTM D5185m	2040	<b>2306</b>	2936	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	23.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.8</b>	7.9	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.8</b>	14.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103944  
**Lab Number** : 06097509  
**Unique Number** : 10890362  
**Test Package** : FLEET

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 24 Feb 2024 - Don Baldrige

**GFL Environmental - 865 - East Mount Hauling**  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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: