



WEAR	<b>ABNORMAL</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**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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

**WEAR**

The iron level is abnormal. All other component wear rates are normal.

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

**CONTAMINATION**

There is no indication of any contamination in the oil.

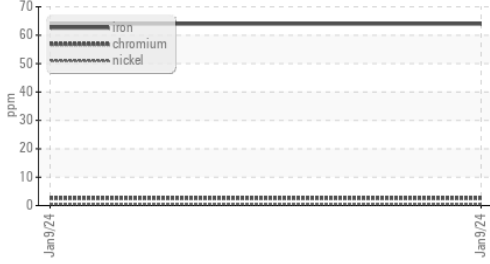
Silicon	ppm	ASTM D5185m	>+100	<b>7</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Soot %	%	*ASTM D7844		<b>2.3</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.0</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

**FLUID CONDITION**

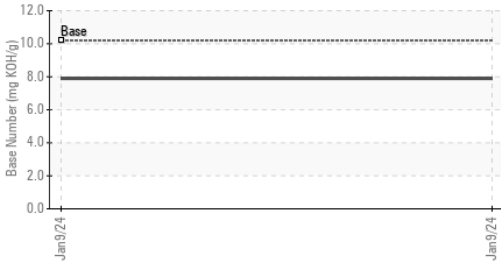
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>13</b>	---	---
Boron	ppm	ASTM D5185m	50	<b>10</b>	---	---
Barium	ppm	ASTM D5185m	5	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>68</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	560	<b>996</b>	---	---
Calcium	ppm	ASTM D5185m	1510	<b>1278</b>	---	---
Phosphorus	ppm	ASTM D5185m	780	<b>1148</b>	---	---
Zinc	ppm	ASTM D5185m	870	<b>1385</b>	---	---
Sulfur	ppm	ASTM D5185m	2040	<b>2936</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.3</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>7.9</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	---	---

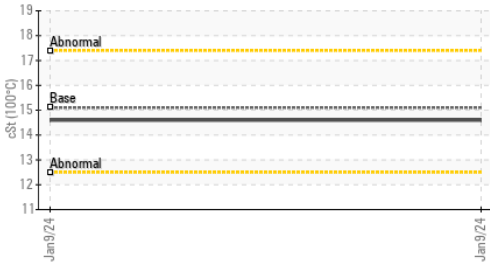
▲ Ferrous Alloys



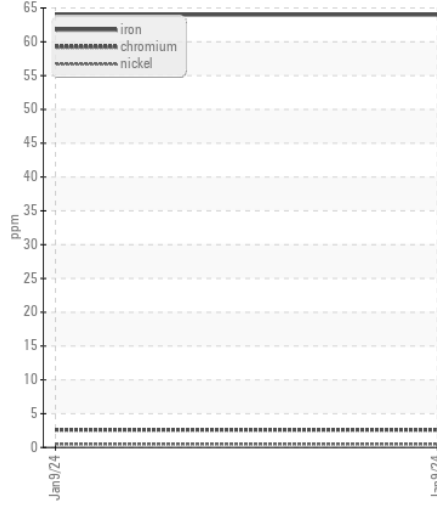
Base Number



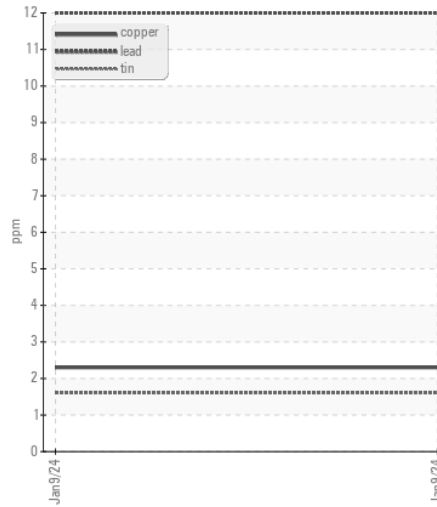
Viscosity @ 100°C



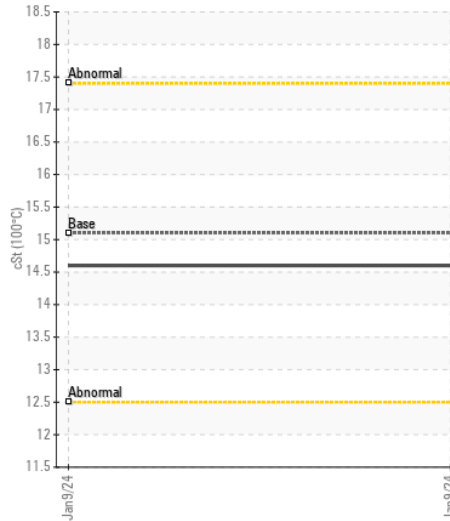
▲ Ferrous Alloys



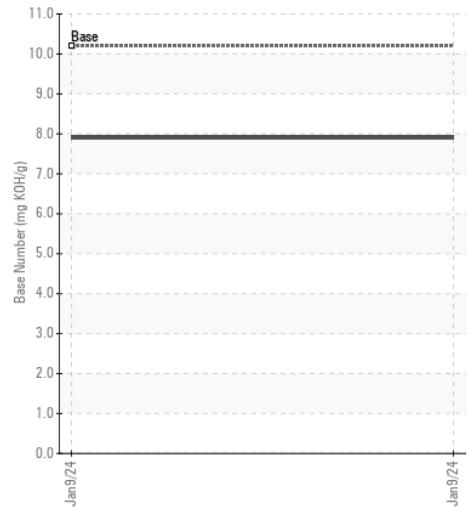
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103958 **Received** : 16 Jan 2024  
**Lab Number** : 06060743 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832125 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**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: