



Machine Id  
**742008**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

**RECOMMENDATION**

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0114771</b>	---	---
Sample Date		Client Info		<b>25 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>12172</b>	---	---
Oil Age	hrs	Client Info		<b>12172</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

**WEAR**

The lead level is severe. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>50	<b>31</b>	---	---
Chromium	ppm	ASTM D5185m	>4	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>3</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>9	<b>6</b>	---	---
Lead	ppm	ASTM D5185m	>30	<b>▲ 160</b>	---	---
Copper	ppm	ASTM D5185m	>35	<b>10</b>	---	---
Tin	ppm	ASTM D5185m	>4	<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

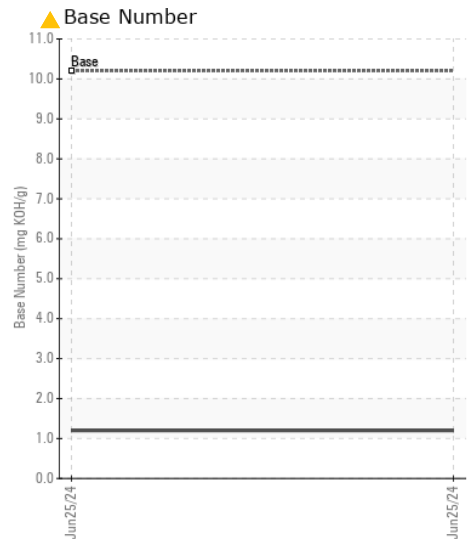
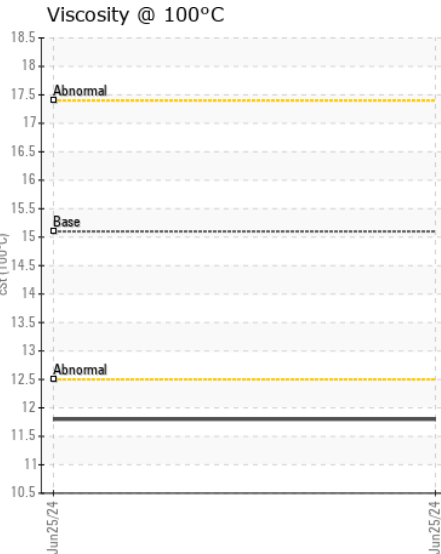
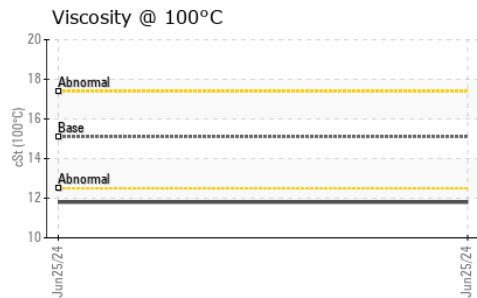
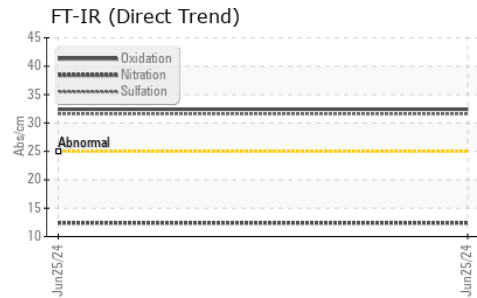
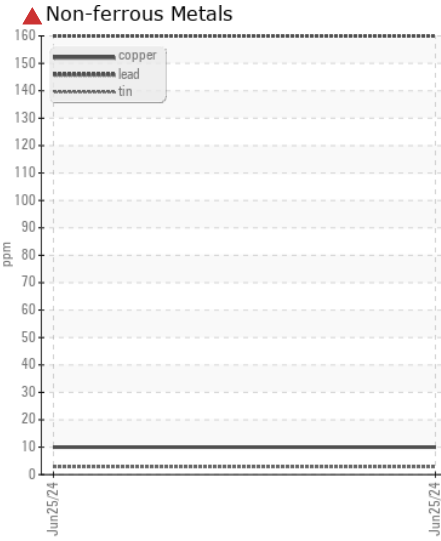
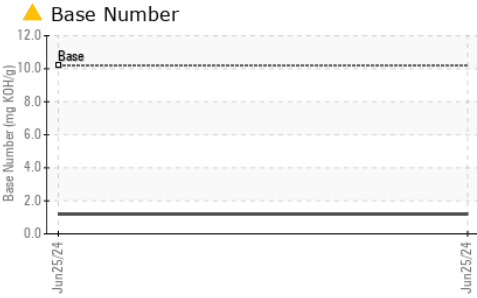
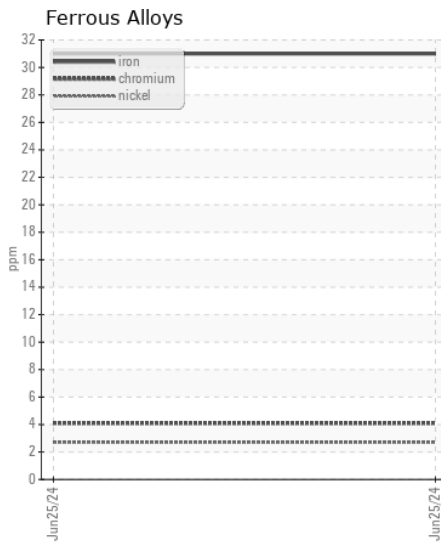
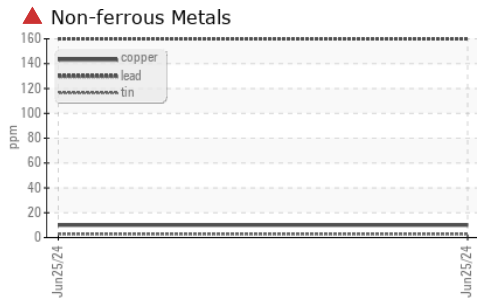
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>9</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>11</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Soot %	%	*ASTM D7844		<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.6</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 oil viscosity is lower than normal. The BN level is low. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		<b>12</b>	---	---
Boron	ppm	ASTM D5185m	50	<b>16</b>	---	---
Barium	ppm	ASTM D5185m	5	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>55</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m	560	<b>527</b>	---	---
Calcium	ppm	ASTM D5185m	1510	<b>1468</b>	---	---
Phosphorus	ppm	ASTM D5185m	780	<b>669</b>	---	---
Zinc	ppm	ASTM D5185m	870	<b>808</b>	---	---
Sulfur	ppm	ASTM D5185m	2040	<b>2125</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>▲ 1.2</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>11.8</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0114771  
**Lab Number** : 06223131  
**Unique Number** : 11101328  
**Test Package** : FLEET

**Received** : 28 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 01 Jul 2024 - Jonathan Hester

**GFL Environmental - 963 - Peoria HC Disposal**  
 1113 N. Swords Ave.  
 West Peoria, IL  
 US 61604  
 Contact: Corey Dozard  
 cdozard@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: