



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

Machine Id  
**AUTOCAR 933047**  
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>GFL0109613</b>	GFL0109648	---
Sample Date		Client Info		<b>12 Jul 2024</b>	17 May 2024	---
Machine Age	hrs	Client Info		<b>1175</b>	780	---
Oil Age	hrs	Client Info		<b>1175</b>	780	---
Filter Age	hrs	Client Info		<b>1175</b>	780	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>50	<b>47</b>	38	---
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	2	---
Lead	ppm	ASTM D5185m	>30	<b>7</b>	2	---
Copper	ppm	ASTM D5185m	>35	<b>15</b>	10	---
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	---
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**

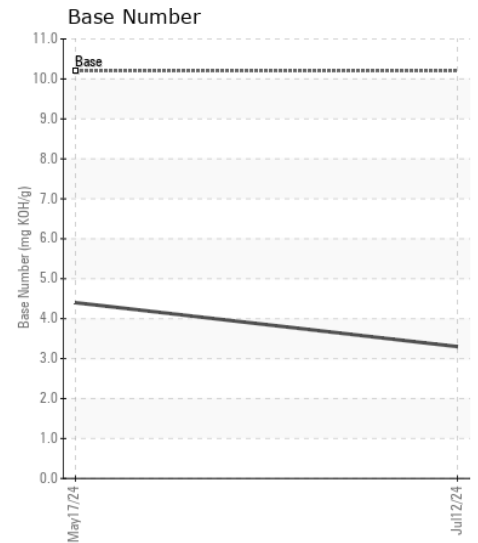
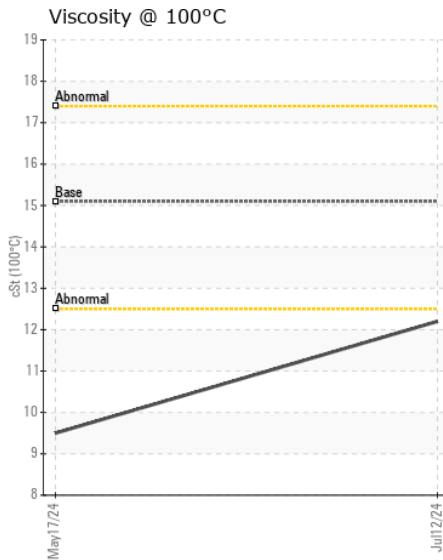
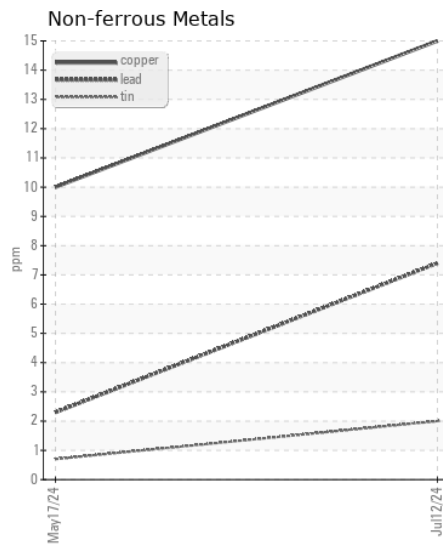
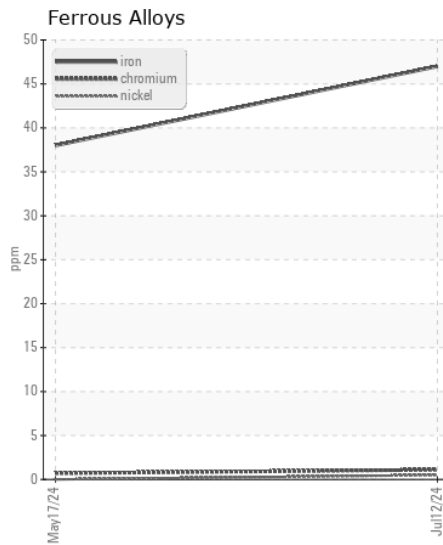
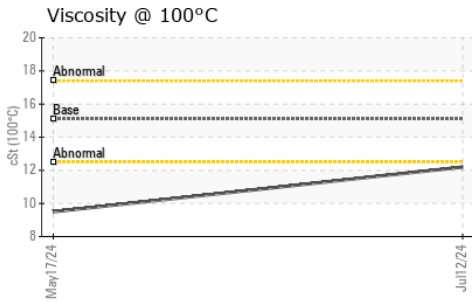
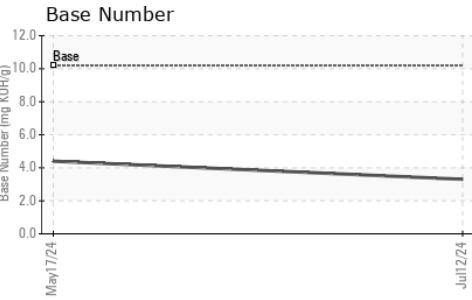
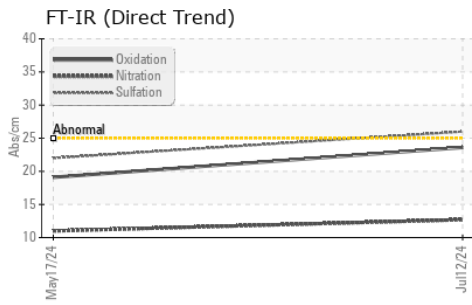
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>73</b>	75	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	3	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.7</b>	11.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.0</b>	22.0	---
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>2</b>	4	---
Boron	ppm	ASTM D5185m	50	<b>7</b>	14	---
Barium	ppm	ASTM D5185m	5	<b>5</b>	5	---
Molybdenum	ppm	ASTM D5185m	50	<b>58</b>	52	---
Manganese	ppm	ASTM D5185m	0	<b>4</b>	3	---
Magnesium	ppm	ASTM D5185m	560	<b>763</b>	722	---
Calcium	ppm	ASTM D5185m	1510	<b>1367</b>	1267	---
Phosphorus	ppm	ASTM D5185m	780	<b>780</b>	666	---
Zinc	ppm	ASTM D5185m	870	<b>966</b>	881	---
Sulfur	ppm	ASTM D5185m	2040	<b>2428</b>	2643	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.6</b>	19.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.3</b>	4.4	---
Visc @ 100°C	cSt	ASTM D445	15.1	<b>12.2</b>	9.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109613  
**Lab Number** : 06239860  
**Unique Number** : 11128694  
**Test Package** : FLEET

**Received** : 18 Jul 2024  
**Tested** : 18 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Don Baldrige

**GFL Environmental - 331 - Columbus**  
 180 Ada Moore Rd  
 Columbus, NC  
 US 28722

Contact: Matt Segars  
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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)