



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

Area

(NH8765)

Machine Id

**AUTOCAR 10909C**

Component

**Natural Gas Engine**

Fluid

**PETRO CANADA DURON GEO LD 15W40 (9 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109654</b>	GFL0087522	GFL0087538
Sample Date		Client Info		<b>19 Apr 2024</b>	10 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		<b>9957</b>	9472	9237
Oil Age	hrs	Client Info		<b>1731</b>	1246	1011
Filter Age	hrs	Client Info		<b>1731</b>	1246	1011
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>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

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

**CONTAMINATION**

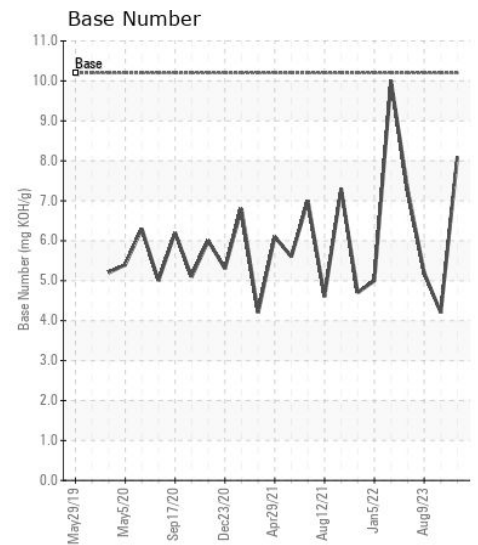
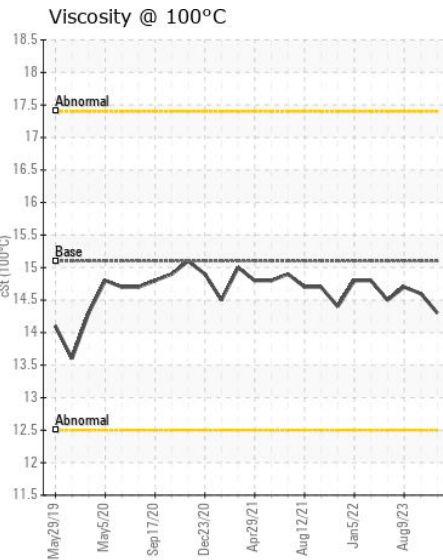
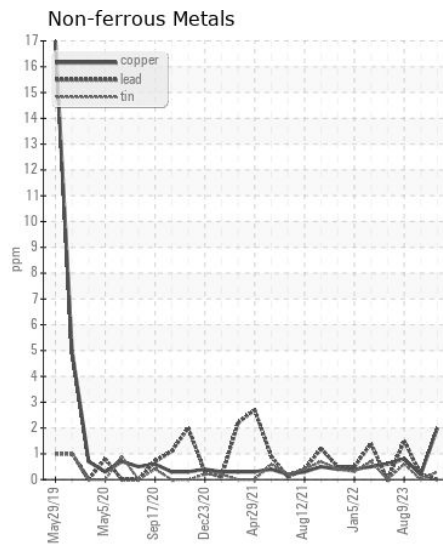
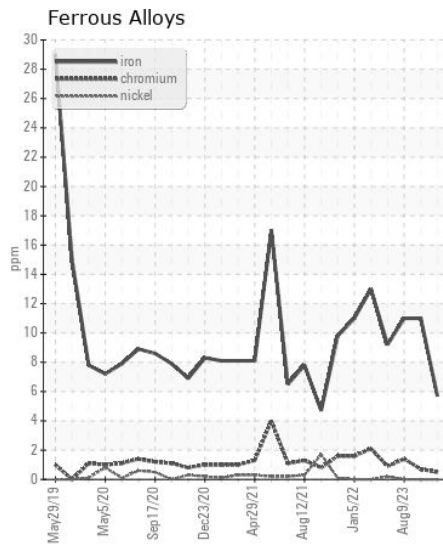
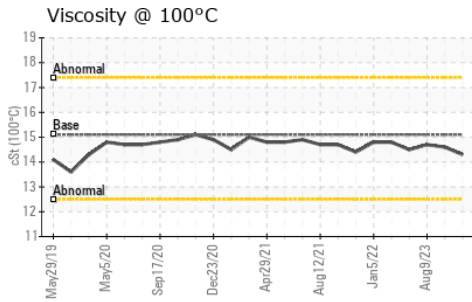
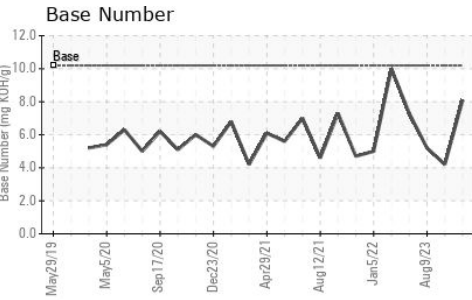
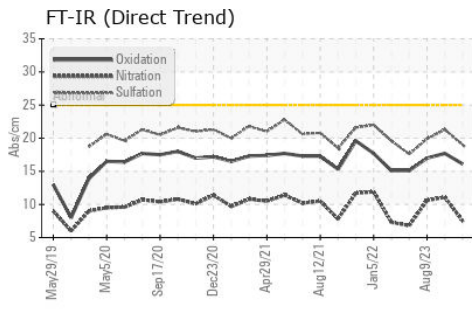
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.5</b>	11.1	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	21.3	19.9
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>6</b>	7	6
Boron	ppm	ASTM D5185m	50	<b>42</b>	2	8
Barium	ppm	ASTM D5185m	5	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>48</b>	59	58
Manganese	ppm	ASTM D5185m	0	<b>1</b>	0	<1
Magnesium	ppm	ASTM D5185m	560	<b>582</b>	561	612
Calcium	ppm	ASTM D5185m	1510	<b>1552</b>	1641	1802
Phosphorus	ppm	ASTM D5185m	780	<b>806</b>	688	764
Zinc	ppm	ASTM D5185m	870	<b>928</b>	1008	1085
Sulfur	ppm	ASTM D5185m	2040	<b>2794</b>	2352	3015
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	17.7	17.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>8.1</b>	4.2	5.2
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.3</b>	14.6	14.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109654  
**Lab Number** : 06155596  
**Unique Number** : 10991019  
**Test Package** : FLEET

**Received** : 22 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Wes Davis

**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)