



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

Machine Id  
**10272C AUTOCAR ACX64**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (29 QTS)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103217</b>	GFL0094753	GFL0094689
Sample Date		Client Info		<b>10 Jan 2024</b>	21 Nov 2023	02 Oct 2023
Machine Age	hrs	Client Info		<b>4855</b>	4609	4274
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>13</b>	10	9
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>1</b>	1	2
Lead	ppm	ASTM D5185m	>30	<b>25</b>	19	10
Copper	ppm	ASTM D5185m	>35	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

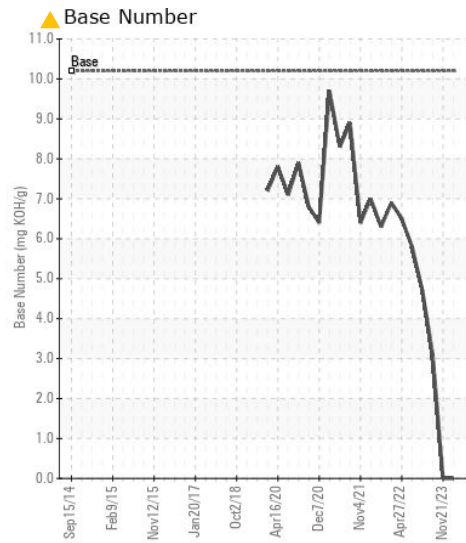
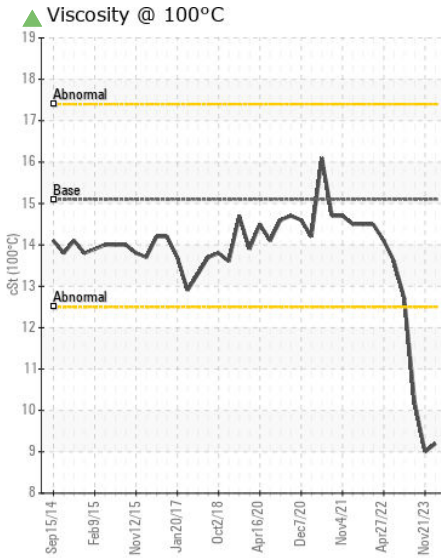
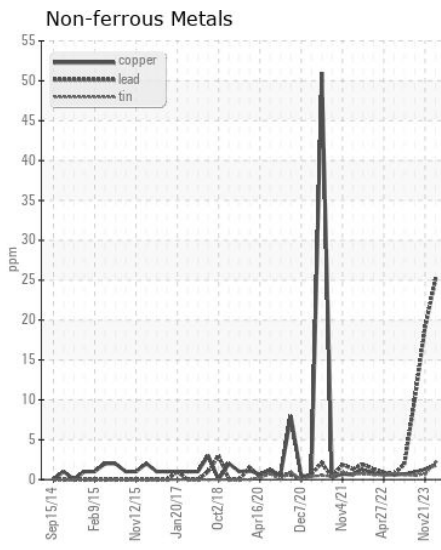
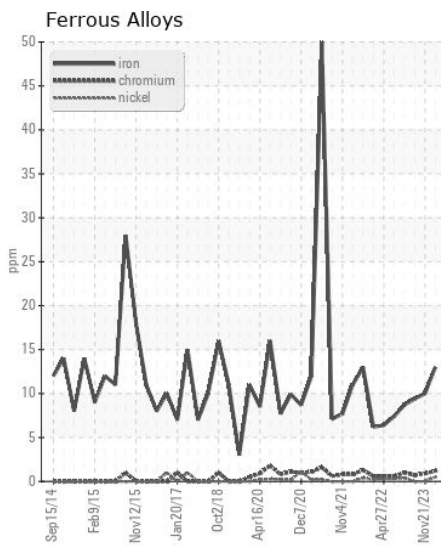
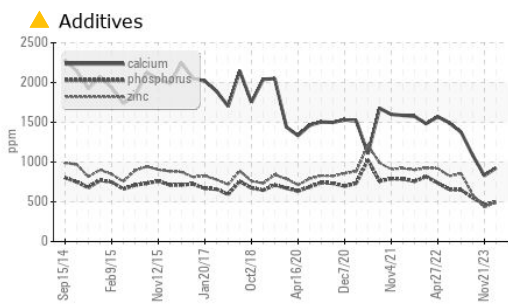
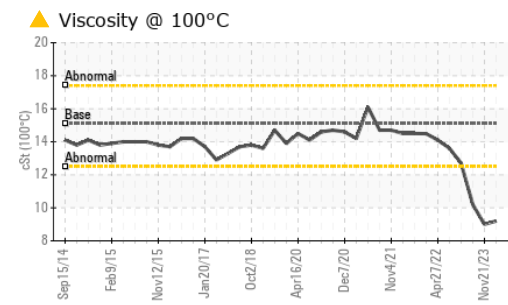
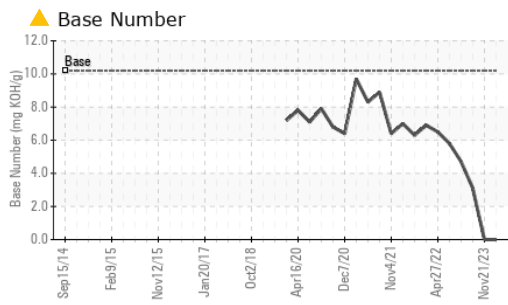
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>3</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	8.6	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.6</b>	27.8	24.8
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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. The BN level is low. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>6</b>	8	8
Boron	ppm	ASTM D5185m	50	<b>21</b>	19	21
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>29</b>	24	36
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>▲ 268</b>	▲ 255	351
Calcium	ppm	ASTM D5185m	1510	<b>▲ 926</b>	▲ 829	1084
Phosphorus	ppm	ASTM D5185m	780	<b>▲ 495</b>	▲ 465	552
Zinc	ppm	ASTM D5185m	870	<b>▲ 493</b>	▲ 433	588
Sulfur	ppm	ASTM D5185m	2040	<b>2088</b>	1881	1971
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.9</b>	33.3	26.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>▲ 0.0</b>	▲ 0.0	3.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>▲ 9.2</b>	▲ 9	▲ 10.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103217 **Received** : 12 Jan 2024  
**Lab Number** : 06058971 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 10830353 **Diagnostician** : Don Baldridge  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
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 Garner, NC  
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Certificate L2367  
 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)