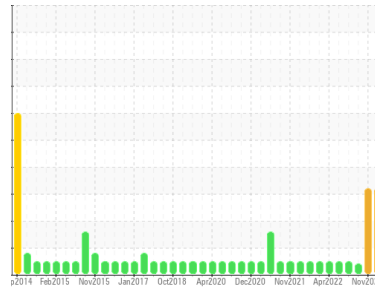




# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id  
**10272C AUTOCAR ACX64**

Component  
**Natural Gas Engine**

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

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ 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.

## SAMPLE INFORMATION

	method	limit/base	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
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
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
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
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

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>3</b>	3	3
Sodium	ppm	ASTM D5185m	<b>6</b>	8	8
Potassium	ppm	ASTM D5185m >20	<b>1</b>	3	3

## INFRA-RED

	method	limit/base	current	history1	history2
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

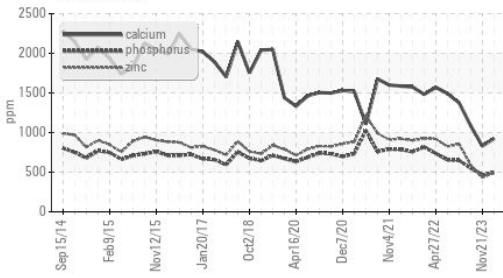
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
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

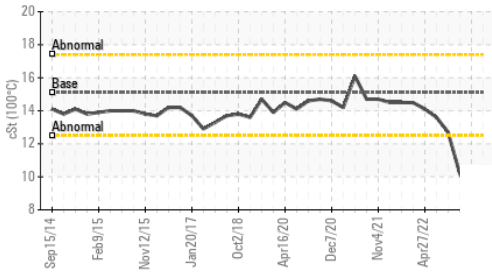


# OIL ANALYSIS REPORT

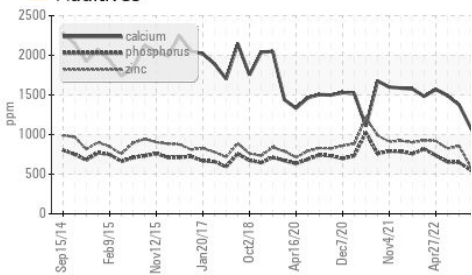
### ▲ Additives



### ▲ Viscosity @ 100°C



### ▲ Additives

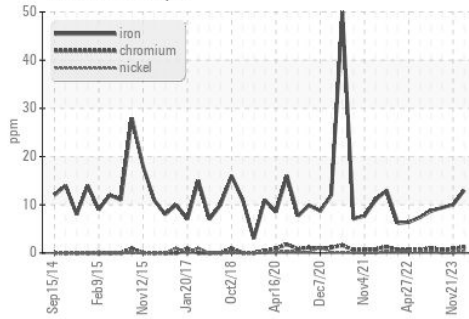


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

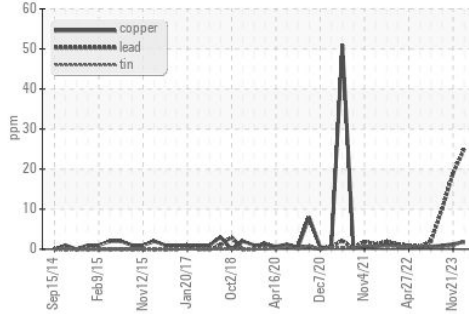
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1 ▲ 9.2	▲ 9	▲ 10.2

### GRAPHS

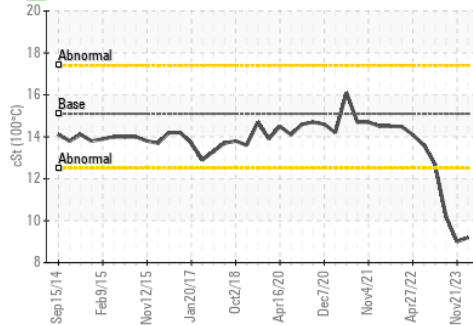
#### Ferrous Alloys



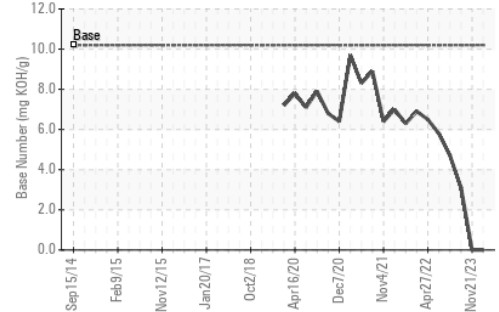
#### Non-ferrous Metals



### ▲ Viscosity @ 100°C



### ▲ Base Number



Certificate L2367

**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 Baldrige  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
 Garner, NC  
 US 27529  
 Contact: Ronald Gregory  
 rgregory@gflenv.com  
 T:  
 F: (919)662-1730

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)