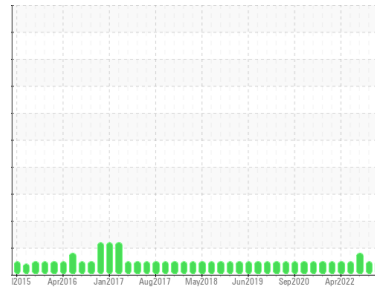




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

## 3511C AUTOCAR ACX

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (48 QTS)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### 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.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0117513</b>	GFL0094727	GFL0089293
Sample Date	Client Info	<b>03 Apr 2024</b>	17 Nov 2023	12 Sep 2023
Machine Age	hrs	Client Info	5982	4848
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ABNORMAL

### 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>35</b>	39	▲ 54
Chromium	ppm ASTM D5185m >4	<b>4</b>	4	4
Nickel	ppm ASTM D5185m >2	<b>1</b>	<1	1
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>8</b>	8	9
Lead	ppm ASTM D5185m >30	<b>5</b>	15	21
Copper	ppm ASTM D5185m >35	<b>2</b>	2	2
Tin	ppm ASTM D5185m >4	<b>1</b>	2	2
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>6</b>	12	5
Barium	ppm ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>62</b>	61	69
Manganese	ppm ASTM D5185m 0	<b>1</b>	1	2
Magnesium	ppm ASTM D5185m 560	<b>578</b>	721	756
Calcium	ppm ASTM D5185m 1510	<b>1670</b>	1937	2148
Phosphorus	ppm ASTM D5185m 780	<b>699</b>	968	945
Zinc	ppm ASTM D5185m 870	<b>949</b>	1206	1218
Sulfur	ppm ASTM D5185m 2040	<b>2301</b>	2754	3330

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>17</b>	7	16
Sodium	ppm ASTM D5185m	<b>11</b>	11	15
Potassium	ppm ASTM D5185m >20	<b>8</b>	5	8

### INFRA-RED

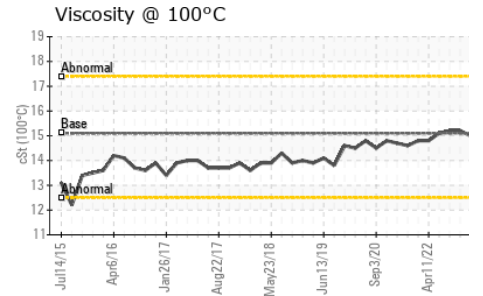
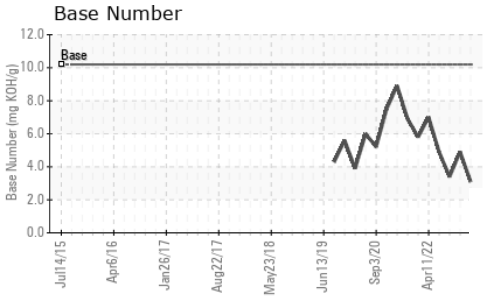
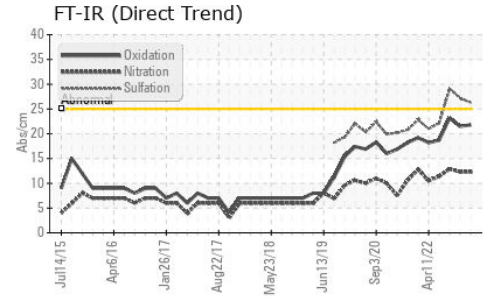
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>12.3</b>	12.3	12.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>26.3</b>	27.2	29.1

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>21.8</b>	21.5	23.2
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>3.1</b>	4.9	3.4



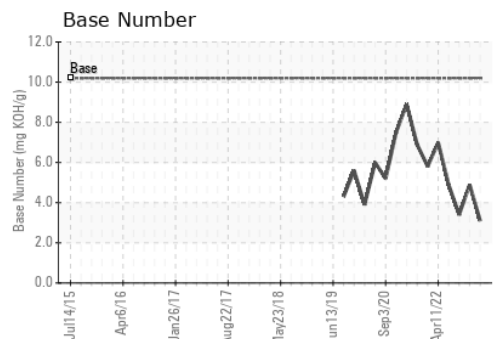
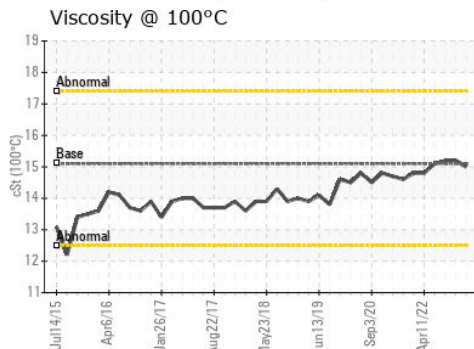
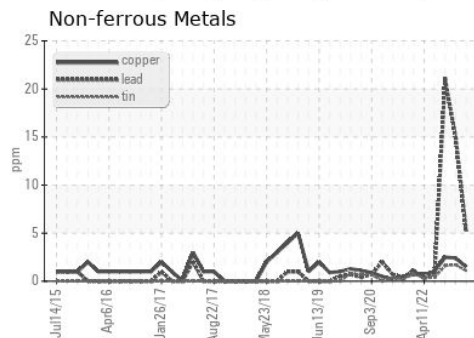
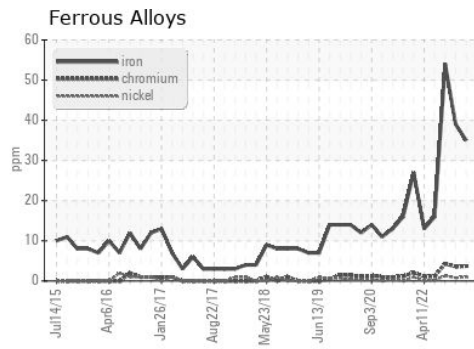
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
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	15.0	15.2

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117513      **Received** : 04 Apr 2024  
**Lab Number** : 06138259      **Tested** : 04 Apr 2024  
**Unique Number** : 10963067      **Diagnosed** : 04 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
 Garner, NC  
 US 27529  
 Contact: Craig Johnson  
 craig.johnson@gflenv.com  
 T: (919)662-7100  
 F: (919)662-7130

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)