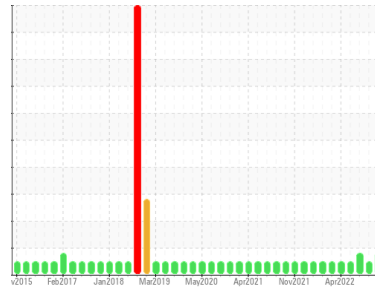




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id

## 10496C Autocar ACX

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

The chromium level is abnormal. All other 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>GFL0117496</b>	GFL0103266	GFL0056749
Sample Date	Client Info	<b>13 May 2024</b>	01 Dec 2023	23 May 2023
Machine Age	hrs	<b>4468</b>	3510	2282
Oil Age	hrs	<b>958</b>	0	991
Oil Changed	Client Info	<b>Not Chngd</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

### CONTAMINATION

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

### WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	<b>41</b>	24	49
Chromium	ppm	ASTM D5185m	>4	<b>7</b>	4	<b>7</b>
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	3	9
Lead	ppm	ASTM D5185m	>30	<b>1</b>	<1	9
Copper	ppm	ASTM D5185m	>35	<b>1</b>	<1	3
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

### ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	50	<b>0</b>	23	9
Barium	ppm	ASTM D5185m	5	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	50	<b>58</b>	48	62
Manganese	ppm	ASTM D5185m	0	<b>3</b>	3	1
Magnesium	ppm	ASTM D5185m	560	<b>608</b>	513	656
Calcium	ppm	ASTM D5185m	1510	<b>1716</b>	1458	1795
Phosphorus	ppm	ASTM D5185m	780	<b>775</b>	706	772
Zinc	ppm	ASTM D5185m	870	<b>1007</b>	884	1069
Sulfur	ppm	ASTM D5185m	2040	<b>2786</b>	3397	2782

### CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+100	<b>11</b>	16	10
Sodium	ppm	ASTM D5185m		<b>11</b>	5	13
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	5	10

### INFRA-RED

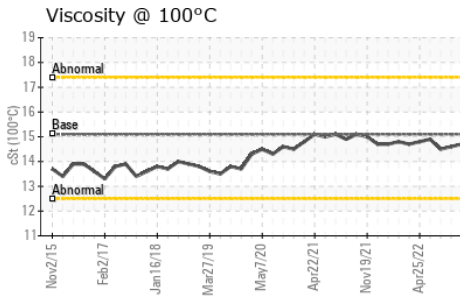
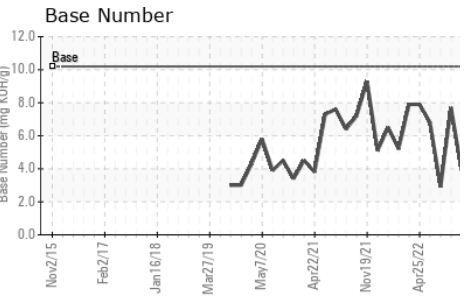
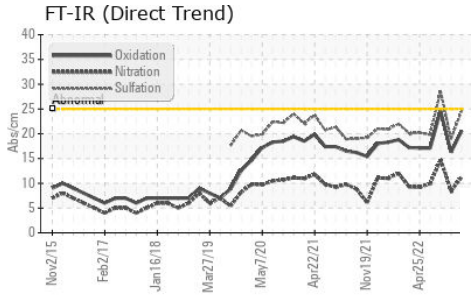
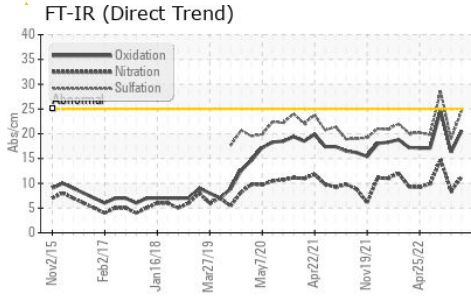
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	8.5	14.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	19.0	28.6

### FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.6</b>	16.3	24.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.9</b>	7.7	2.9



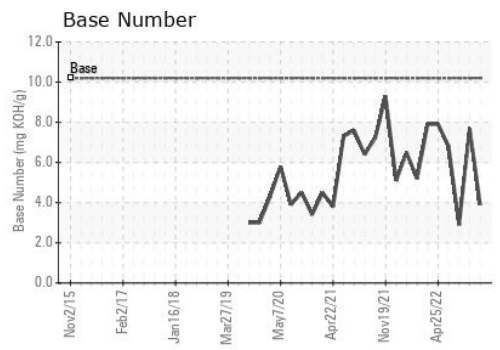
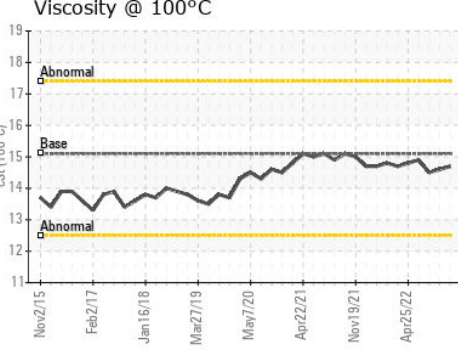
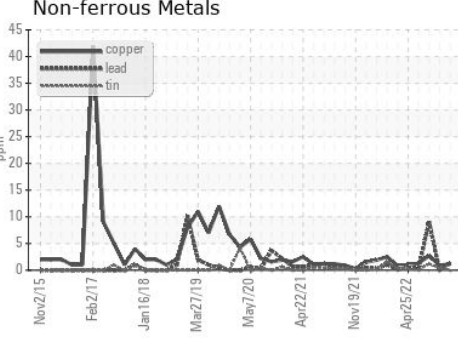
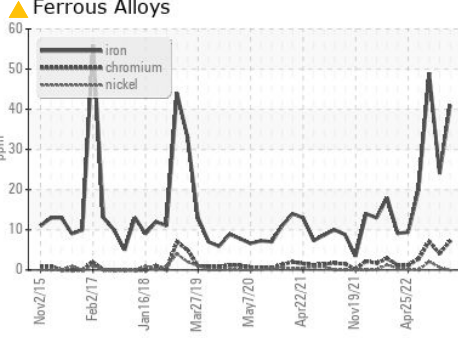
# OIL ANALYSIS REPORT



PARAMETER	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	LIGHT	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	14.7	14.6

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0117496  
 Lab Number : 06178327  
 Unique Number : 11029653  
 Test Package : FLEET

Received : 14 May 2024  
 Tested : 17 May 2024  
 Diagnosed : 17 May 2024 - Sean Felton

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

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)

F: (919)662-1730