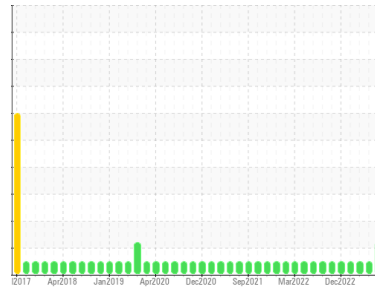




# OIL ANALYSIS REPORT

Sample Rating Trend



**DEGRADATION**



Machine Id  
**10737C AUTOCAR ACX**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (28 QTS)**

## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. 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 level is low. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0103183</b>	GFL0103248	GFL0089267
Sample Date	Client Info	<b>22 May 2024</b>	05 Jan 2024	27 Jul 2023
Machine Age	hrs	<b>0</b>	8641	7366
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	Changed	Not Changed
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## 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>31</b>	28	12
Chromium	ppm ASTM D5185m >4	<b>5</b>	3	1
Nickel	ppm ASTM D5185m >2	<b>1</b>	<1	0
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>4</b>	3	2
Lead	ppm ASTM D5185m >30	<b>2</b>	6	0
Copper	ppm ASTM D5185m >35	<b>2</b>	<1	0
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	0	0
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>6</b>	3	7
Barium	ppm ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>88</b>	59	57
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185m 560	<b>925</b>	629	620
Calcium	ppm ASTM D5185m 1510	<b>2579</b>	1719	1735
Phosphorus	ppm ASTM D5185m 780	<b>1135</b>	826	790
Zinc	ppm ASTM D5185m 870	<b>1582</b>	1059	1021
Sulfur	ppm ASTM D5185m 2040	<b>4375</b>	2657	3021

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>26</b>	5	4
Sodium	ppm ASTM D5185m	<b>17</b>	10	7
Potassium	ppm ASTM D5185m >20	<b>12</b>	3	0

## INFRA-RED

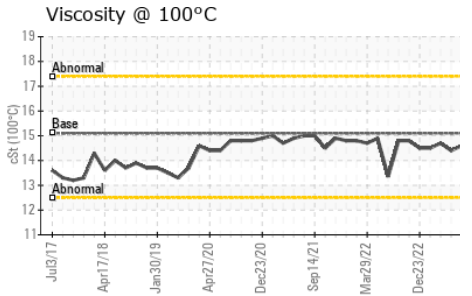
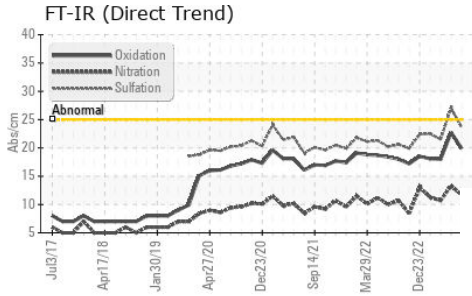
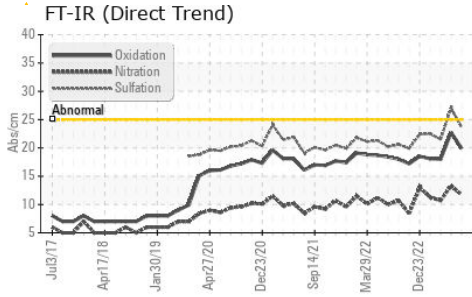
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0.1</b>	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	<b>11.7</b>	13.3	10.7
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.6</b>	27.1	21.5

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>19.9</b>	22.7	18.0
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>▲ 2.8</b>	2.5	4.6



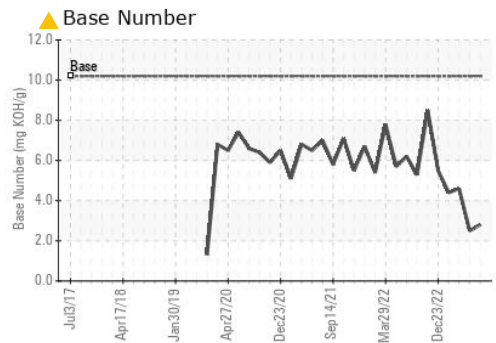
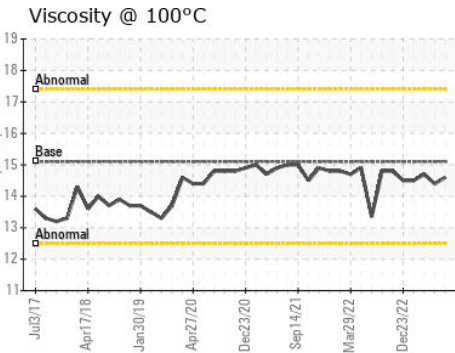
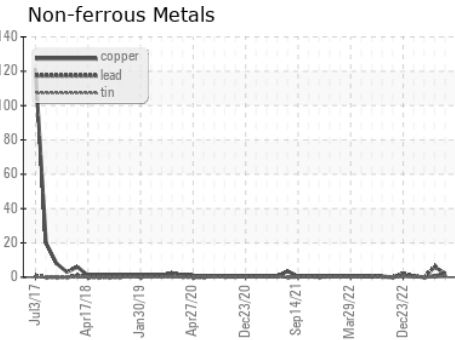
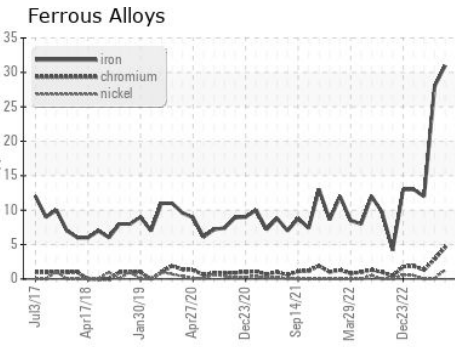
# OIL ANALYSIS REPORT



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	14.6	14.4

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103183  
**Lab Number** : 06188634  
**Unique Number** : 11045386  
**Test Package** : FLEET  
**Received** : 23 May 2024  
**Tested** : 24 May 2024  
**Diagnosed** : 28 May 2024 - Don Baldrige

**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