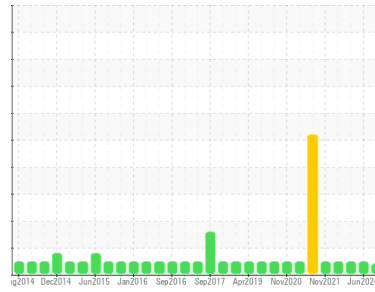




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
(YA115865)

Machine Id  
**10421C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (30 QTS)**

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0082424</b>	GFL0123413	GFL0050748
Sample Date	Client Info		<b>24 Jun 2024</b>	18 Jun 2024	25 Jan 2023
Machine Age	hrs	Client Info	<b>0</b>	99414	16435
Oil Age	hrs	Client Info	<b>0</b>	99414	1606
Oil Changed	Client Info		<b>Changed</b>	N/A	Changed
Sample Status			<b>ATTENTION</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>26</b>	7	13
Chromium	ppm	ASTM D5185m >4	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>3</b>	1	2
Lead	ppm	ASTM D5185m >30	<b>21</b>	3	2
Copper	ppm	ASTM D5185m >35	<b>4</b>	2	1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>14</b>	31	12
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>48</b>	49	50
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>540</b>	581	485
Calcium	ppm	ASTM D5185m 1510	<b>1521</b>	1667	1530
Phosphorus	ppm	ASTM D5185m 780	<b>770</b>	853	627
Zinc	ppm	ASTM D5185m 870	<b>890</b>	1012	832
Sulfur	ppm	ASTM D5185m 2040	<b>2738</b>	3020	2559

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>10</b>	4	5
Sodium	ppm	ASTM D5185m	<b>11</b>	10	11
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	1

### INFRA-RED

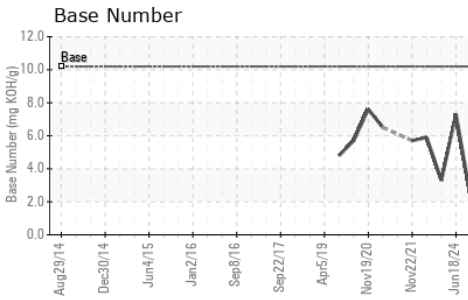
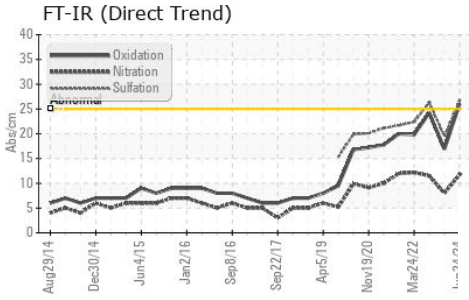
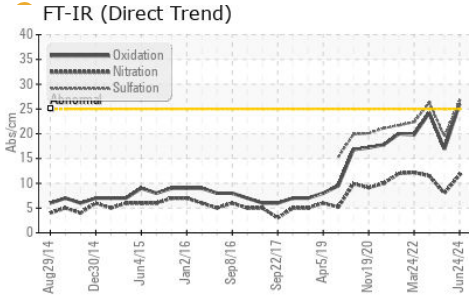
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.7</b>	8.0	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.6</b>	19.5	26.3

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>26.0</b>	16.9	24.2
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>2.3</b>	7.3	3.3



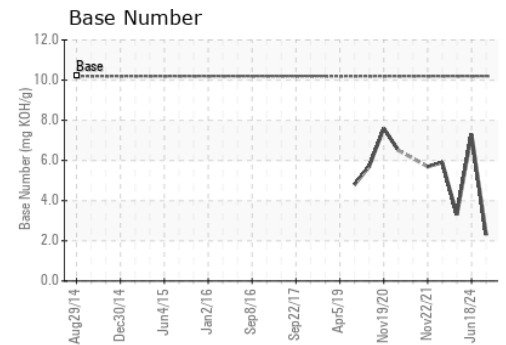
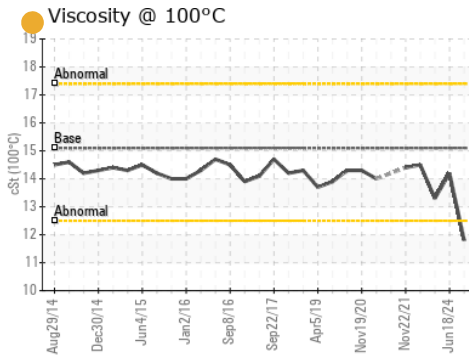
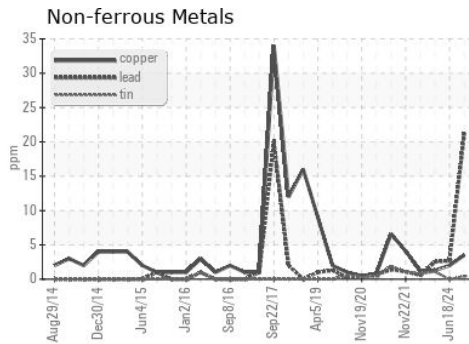
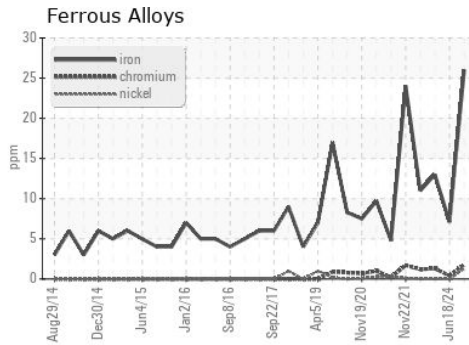
# OIL ANALYSIS REPORT



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	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	11.8	14.2

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0082424  
 Lab Number : 06219430  
 Unique Number : 11097627  
 Test Package : FLEET

Received : 25 Jun 2024  
 Tested : 28 Jun 2024  
 Diagnosed : 28 Jun 2024 - Jonathan Hester

GFL Environmental - 007 - Brunswick  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@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)

T: (910)253-4179