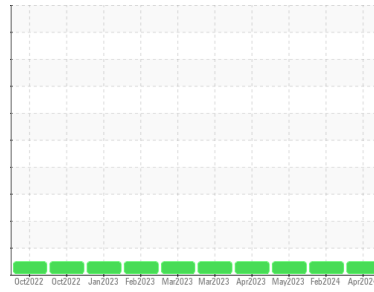




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**946014-260295**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>GFL0106899</b>	GFL0106766	GFL0078124
Sample Date	Client Info		<b>18 Apr 2024</b>	27 Feb 2024	01 May 2023
Machine Age	hrs	Client Info	<b>153</b>	1331	2790
Oil Age	hrs	Client Info	<b>600</b>	600	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</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>20</b>	5	19
Chromium	ppm	ASTM D5185m >4	<b>2</b>	<1	1
Nickel	ppm	ASTM D5185m >2	<b>2</b>	0	<1
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>	1	1
Lead	ppm	ASTM D5185m >30	<b>4</b>	<1	2
Copper	ppm	ASTM D5185m >35	<b>5</b>	4	4
Tin	ppm	ASTM D5185m >4	<b>3</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>16</b>	37	12
Barium	ppm	ASTM D5185m 5	<b>2</b>	7	2
Molybdenum	ppm	ASTM D5185m 50	<b>54</b>	42	50
Manganese	ppm	ASTM D5185m 0	<b>4</b>	5	2
Magnesium	ppm	ASTM D5185m 560	<b>564</b>	768	798
Calcium	ppm	ASTM D5185m 1510	<b>1493</b>	1041	1215
Phosphorus	ppm	ASTM D5185m 780	<b>687</b>	694	653
Zinc	ppm	ASTM D5185m 870	<b>891</b>	854	920
Sulfur	ppm	ASTM D5185m 2040	<b>2429</b>	2219	2749

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>21</b>	12	23
Sodium	ppm	ASTM D5185m	<b>6</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>4</b>	4	2

## INFRA-RED

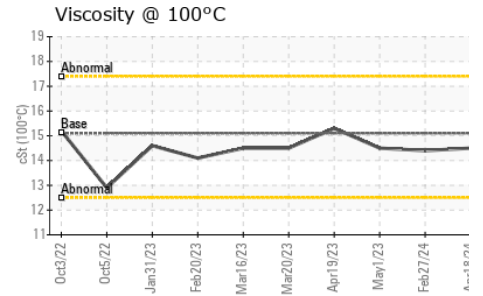
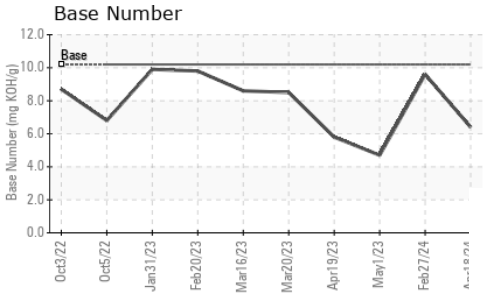
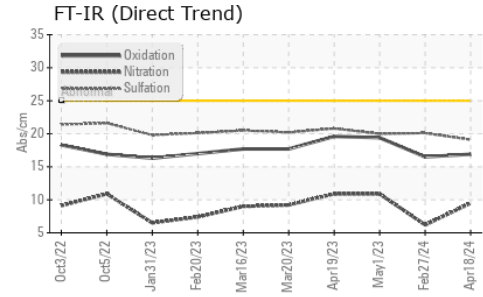
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.5</b>	6.2	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.1</b>	20.1	20.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.9</b>	16.5	19.4
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>6.4</b>	9.6	4.7



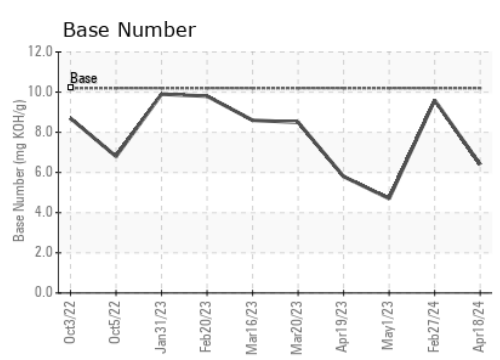
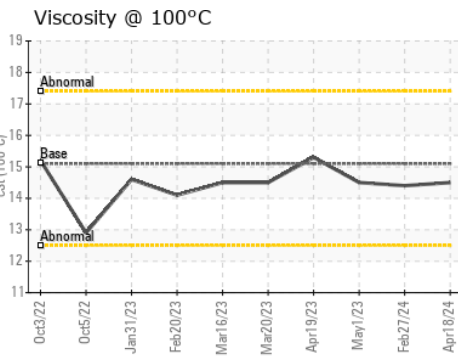
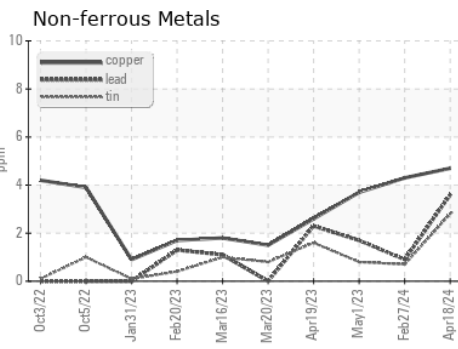
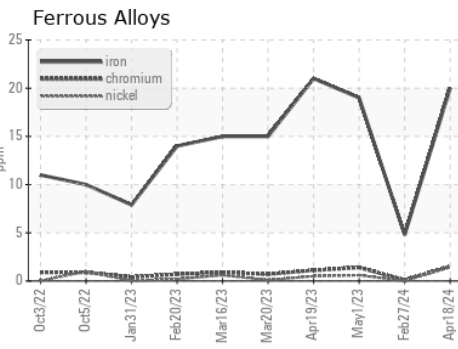
# OIL ANALYSIS REPORT



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	14.5	14.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0106899      **Received** : 25 Apr 2024  
**Lab Number** : 06160207      **Tested** : 26 Apr 2024  
**Unique Number** : 10995630      **Diagnosed** : 26 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Apolinar Zacarias  
 pzacariascano@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)