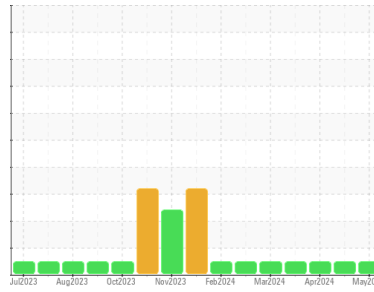




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**934022**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## 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>GFL0122841</b>	GFL0118764	GFL0118844
Sample Date	Client Info		<b>27 May 2024</b>	03 May 2024	30 Apr 2024
Machine Age	hrs	Client Info	<b>2560</b>	2391	2351
Oil Age	hrs	Client Info	<b>169</b>	1513	1648
Oil Changed	Client Info		<b>Not 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>10</b>	13	14
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>7</b>	13	10
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	1	3
Copper	ppm	ASTM D5185m >150	<b>3</b>	5	4
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	3
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	2

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>24</b>	9	2
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>61</b>	124	110
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m 560	<b>590</b>	718	738
Calcium	ppm	ASTM D5185m 1510	<b>1562</b>	1414	1463
Phosphorus	ppm	ASTM D5185m 780	<b>897</b>	745	781
Zinc	ppm	ASTM D5185m 870	<b>968</b>	879	936
Sulfur	ppm	ASTM D5185m 2040	<b>2910</b>	3299	3690

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	10	10
Sodium	ppm	ASTM D5185m	<b>4</b>	8	2
Potassium	ppm	ASTM D5185m >20	<b>14</b>	10	10

## INFRA-RED

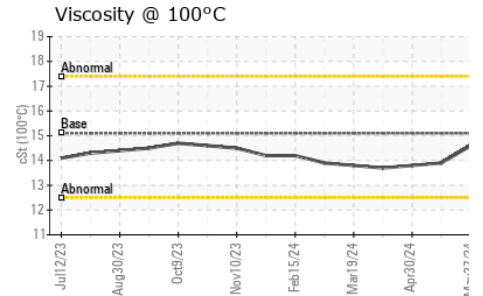
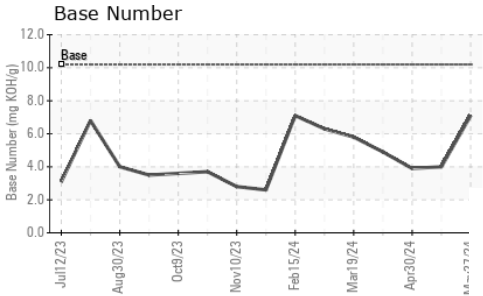
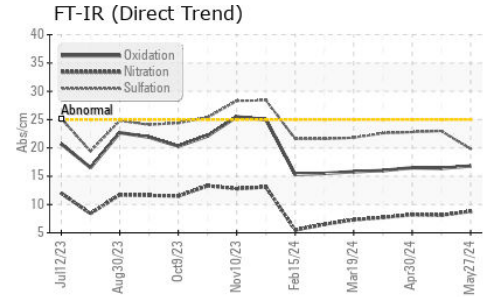
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.8</b>	8.1	8.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.8</b>	23.0	22.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.8</b>	16.4	16.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>7.1</b>	4.0	3.9



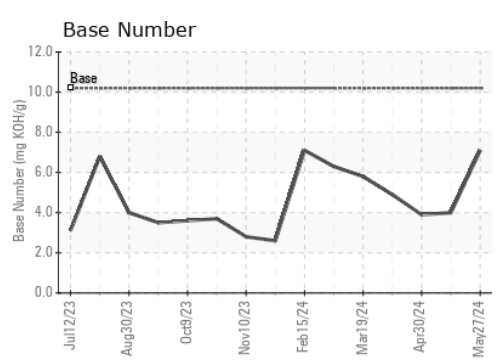
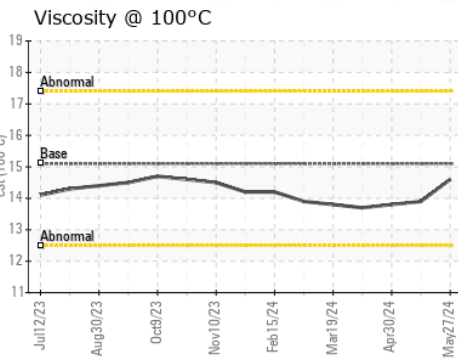
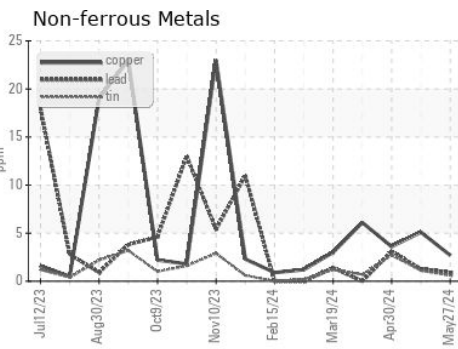
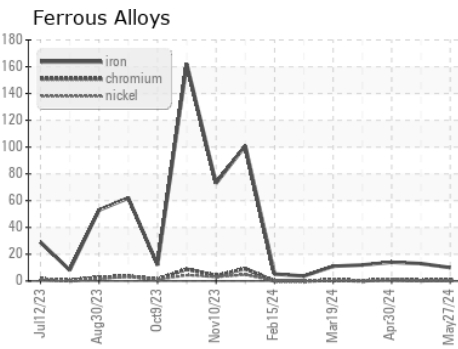
# OIL ANALYSIS REPORT



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	13.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122841      **Received** : 31 May 2024  
**Lab Number** : 06196345      **Tested** : 03 Jun 2024  
**Unique Number** : 11058468      **Diagnosed** : 03 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@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)