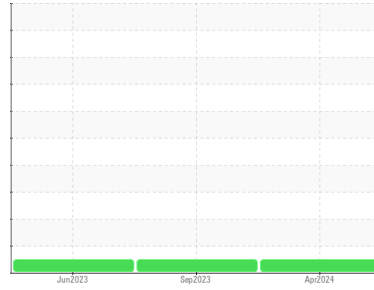




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**742004**

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>GFL0108354</b>	GFL0084667	GFL0082268
Sample Date	Client Info		<b>05 Apr 2024</b>	29 Sep 2023	30 Jun 2023
Machine Age	hrs	Client Info	<b>33500</b>	0	43547
Oil Age	hrs	Client Info	<b>0</b>	0	43547
Oil Changed	Client Info		<b>N/A</b>	Changed	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>25</b>	7	26
Chromium	ppm	ASTM D5185m >4	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m >2	<b>2</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>3</b>	0	4
Lead	ppm	ASTM D5185m >30	<b>8</b>	1	<1
Copper	ppm	ASTM D5185m >35	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m >4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>6</b>	11	14
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	58	84
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>603</b>	642	679
Calcium	ppm	ASTM D5185m 1510	<b>1725</b>	1797	1661
Phosphorus	ppm	ASTM D5185m 780	<b>753</b>	759	789
Zinc	ppm	ASTM D5185m 870	<b>991</b>	1063	1020
Sulfur	ppm	ASTM D5185m 2040	<b>2583</b>	2625	3433

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>7</b>	4	9
Sodium	ppm	ASTM D5185m	<b>16</b>	8	9
Potassium	ppm	ASTM D5185m >20	<b>3</b>	0	3

## INFRA-RED

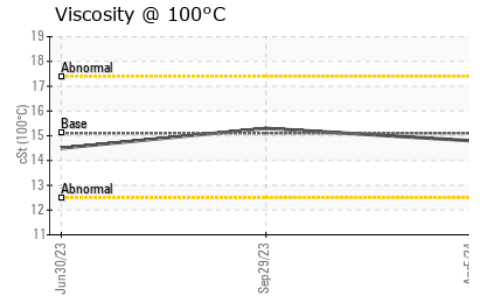
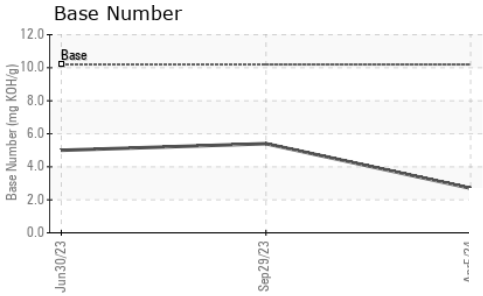
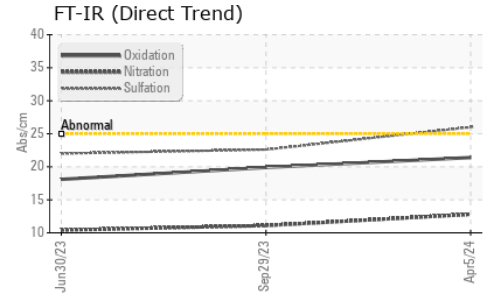
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.8</b>	11.1	10.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.0</b>	22.6	22.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.4</b>	19.9	18.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>2.7</b>	5.4	5.0



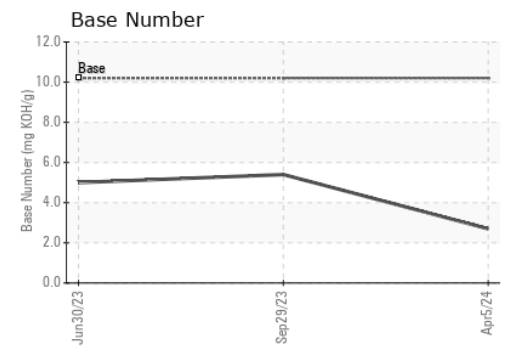
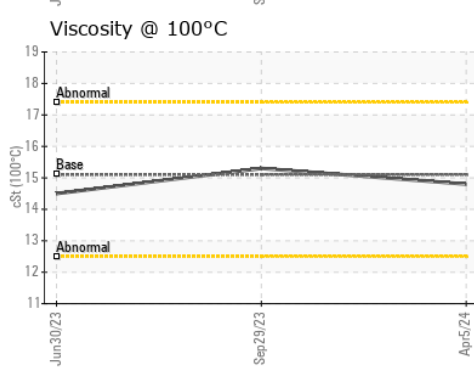
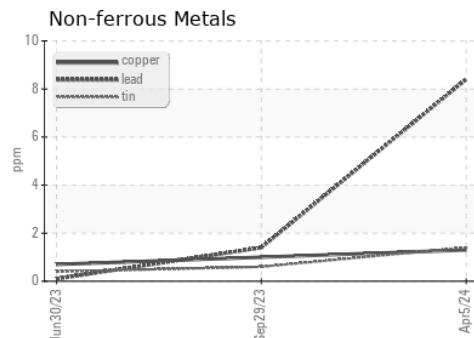
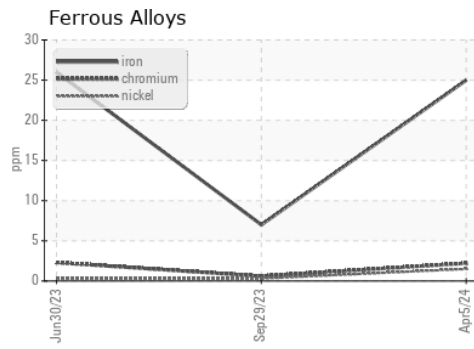
# OIL ANALYSIS REPORT



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	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	14.8	15.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108354      **Received** : 10 Apr 2024  
**Lab Number** : 06144036      **Tested** : 11 Apr 2024  
**Unique Number** : 10968844      **Diagnosed** : 12 Apr 2024 - Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 963 - Peoria HC Disposal**  
 1113 N. Swords Ave.  
 West Peoria, IL  
 US 61604  
 Contact: Corey Dozard  
 cdozard@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)