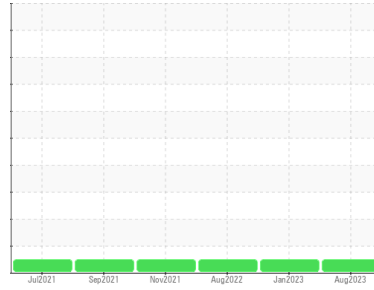




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**744008**

Component  
**Natural Gas Engine**

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

### 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>GFL0085368</b>	GFL0066755	GFL0057099
Sample Date	Client Info	<b>04 Aug 2023</b>	19 Jan 2023	15 Aug 2022
Machine Age	hrs	<b>5288</b>	4178	3277
Oil Age	hrs	<b>5288</b>	901	1499
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>13</b>	11	15
Chromium	ppm	ASTM D5185m >4	<b>2</b>	1	2
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	3	4
Lead	ppm	ASTM D5185m >30	<b>2</b>	1	4
Copper	ppm	ASTM D5185m >35	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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>4</b>	8	14
Barium	ppm	ASTM D5185m 5	<b>0</b>	2	<1
Molybdenum	ppm	ASTM D5185m 50	<b>57</b>	51	60
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>607</b>	503	604
Calcium	ppm	ASTM D5185m 1510	<b>1798</b>	1459	1726
Phosphorus	ppm	ASTM D5185m 780	<b>747</b>	644	772
Zinc	ppm	ASTM D5185m 870	<b>1052</b>	913	1039
Sulfur	ppm	ASTM D5185m 2040	<b>3037</b>	2644	2601

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	4	4
Sodium	ppm	ASTM D5185m	<b>11</b>	7	10
Potassium	ppm	ASTM D5185m >20	<b>6</b>	4	3

### INFRA-RED

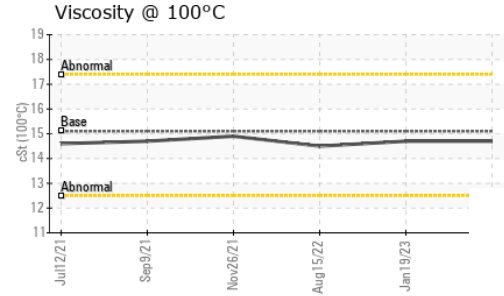
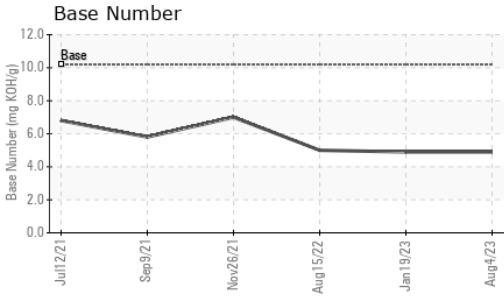
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.7</b>	11.5	12.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.1</b>	21.2	26.6

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.1</b>	17.3	21.0
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.9</b>	4.9	5.0



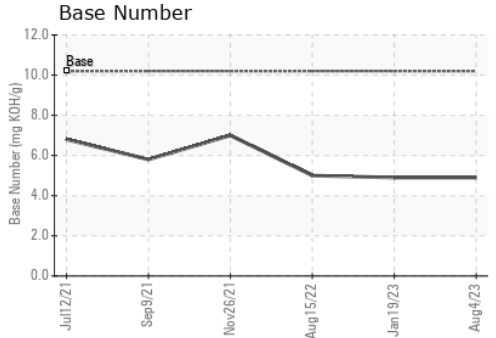
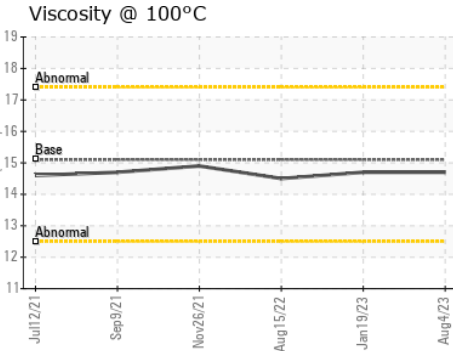
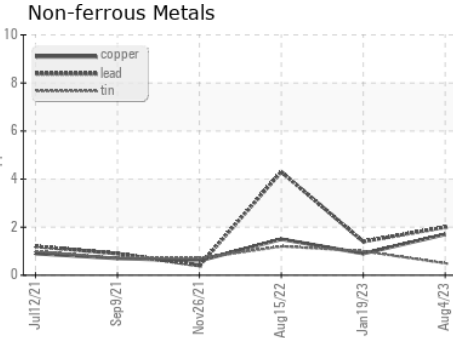
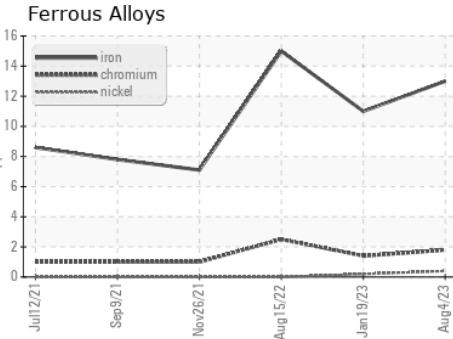
# OIL ANALYSIS REPORT



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	LIGHT	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	<b>14.7</b>	14.7	14.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0085368 **Received** : 08 Aug 2023  
**Lab Number** : **05918332** **Diagnosed** : 08 Aug 2023  
**Unique Number** : 10590246 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 882 - Gainesville**  
 5002 SW 41st Blvd  
 Gainesville, FL  
 US 32608  
 Contact: ROBERT CLARK  
 robert.clark@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)