



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**541000**

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	history 1	history 2
Sample Number	Client Info	<b>GFL0082269</b>	---	---
Sample Date	Client Info	<b>30 Jun 2023</b>	---	---
Machine Age	hrs Client Info	<b>5497</b>	---	---
Oil Age	hrs Client Info	<b>5497</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185m	>50	<b>17</b>	---	---
Chromium ppm ASTM D5185m	>4	<b>2</b>	---	---
Nickel ppm ASTM D5185m	>2	<b>&lt;1</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m	>3	<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>9	<b>11</b>	---	---
Lead ppm ASTM D5185m	>30	<b>6</b>	---	---
Copper ppm ASTM D5185m	>35	<b>2</b>	---	---
Tin ppm ASTM D5185m	>4	<b>&lt;1</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185m	50	<b>10</b>	---	---
Barium ppm ASTM D5185m	5	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	50	<b>78</b>	---	---
Manganese ppm ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	560	<b>697</b>	---	---
Calcium ppm ASTM D5185m	1510	<b>1812</b>	---	---
Phosphorus ppm ASTM D5185m	780	<b>860</b>	---	---
Zinc ppm ASTM D5185m	870	<b>1089</b>	---	---
Sulfur ppm ASTM D5185m	2040	<b>3460</b>	---	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185m	>+100	<b>10</b>	---	---
Sodium ppm ASTM D5185m		<b>8</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>7</b>	---	---

## INFRA-RED

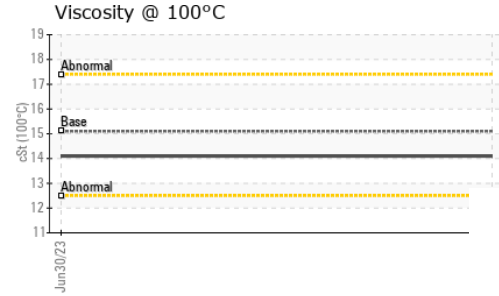
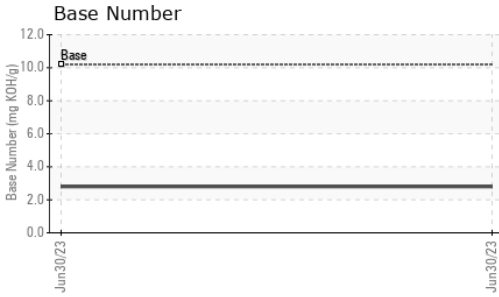
method	limit/base	current	history 1	history 2
Soot % *ASTM D7844		<b>0.1</b>	---	---
Nitration Abs/cm *ASTM D7624	>20	<b>12.1</b>	---	---
Sulfation Abs/.1mm *ASTM D7415	>30	<b>29.3</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation Abs/.1mm *ASTM D7414	>25	<b>25.6</b>	---	---
Base Number (BN) mg KOH/g ASTM D2896	10.2	<b>2.8</b>	---	---



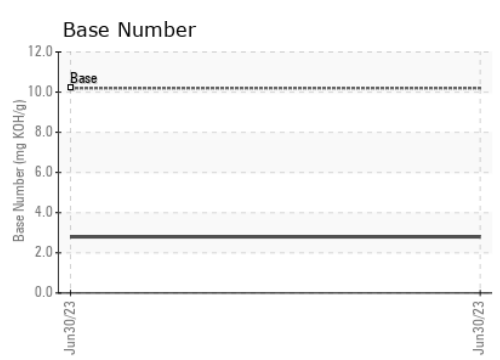
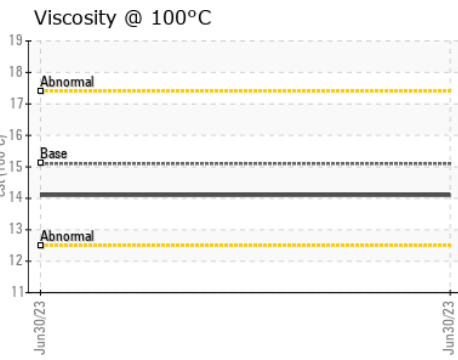
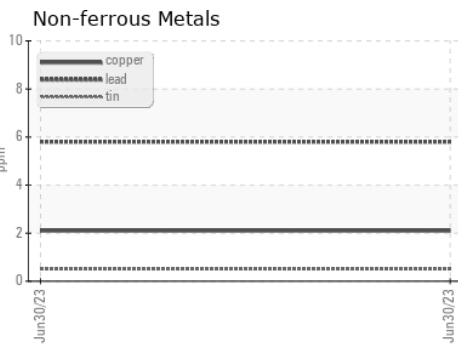
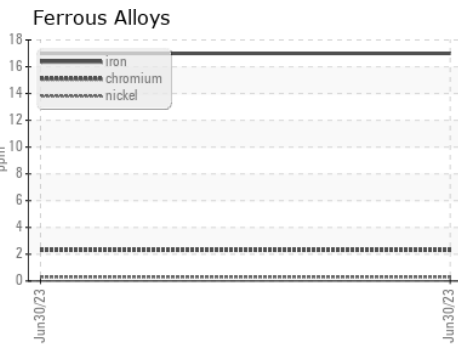
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.1</b>	---	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0082269 **Received** : 05 Jul 2023  
**Lab Number** : **05890011** **Diagnosed** : 07 Jul 2023  
**Unique Number** : 10545821 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

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

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)