



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

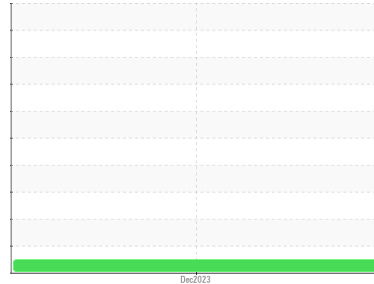


Area  
**{UNASSIGNED}**

Machine Id  
**7983**

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 components first oil change.

### 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>GFL0098429</b>	---	---
Sample Date	Client Info	<b>04 Dec 2023</b>	---	---
Machine Age	hrs Client Info	<b>1742</b>	---	---
Oil Age	hrs Client Info	<b>1742</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>18</b>	---	---
Chromium	ppm ASTM D5185m >4	<b>1</b>	---	---
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >9	<b>2</b>	---	---
Lead	ppm ASTM D5185m >30	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m >35	<b>1</b>	---	---
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>12</b>	---	---
Barium	ppm ASTM D5185m 5	<b>12</b>	---	---
Molybdenum	ppm ASTM D5185m 50	<b>60</b>	---	---
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m 560	<b>588</b>	---	---
Calcium	ppm ASTM D5185m 1510	<b>1708</b>	---	---
Phosphorus	ppm ASTM D5185m 780	<b>753</b>	---	---
Zinc	ppm ASTM D5185m 870	<b>1032</b>	---	---
Sulfur	ppm ASTM D5185m 2040	<b>2644</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>4</b>	---	---
Sodium	ppm ASTM D5185m	<b>5</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>2</b>	---	---

## INFRA-RED

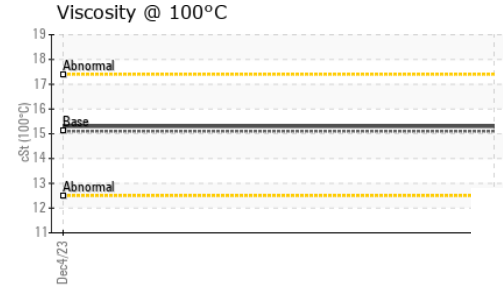
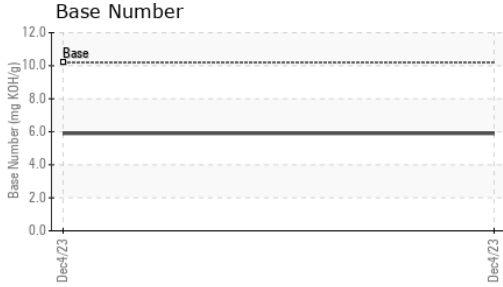
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0.1</b>	---	---
Nitration	Abs/cm *ASTM D7624 >20	<b>11.3</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.8</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.2</b>	---	---
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>5.9</b>	---	---



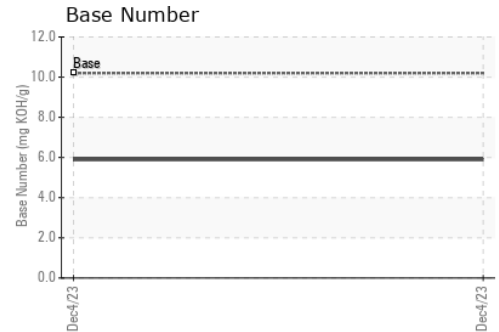
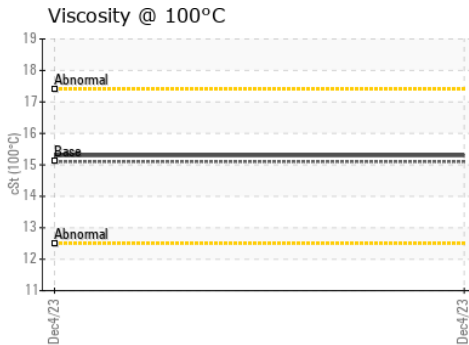
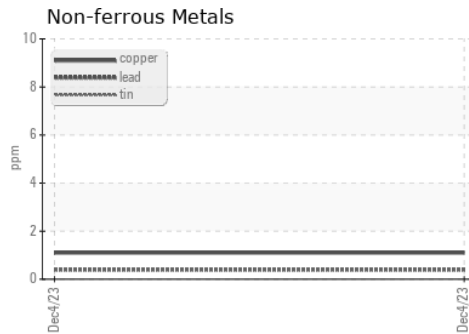
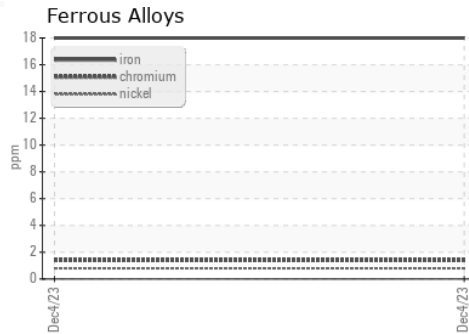
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
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	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.1	<b>15.3</b>	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0098429 **Received** : 15 Dec 2023  
**Lab Number** : **06035755** **Diagnosed** : 16 Dec 2023  
**Unique Number** : 10790984 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 918 - Hartland HC**  
 630 E Industrial Drive  
 Hartland, WI  
 US 53029  
 Contact: David McCall  
 david.mccall@gflenv.com  
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 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)