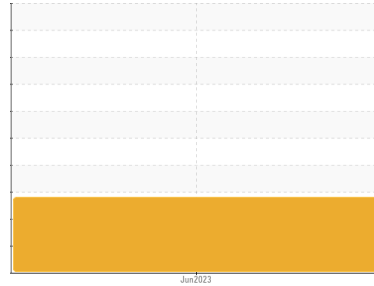




# PROBLEM SUMMARY

Sample Rating Trend



DIRT

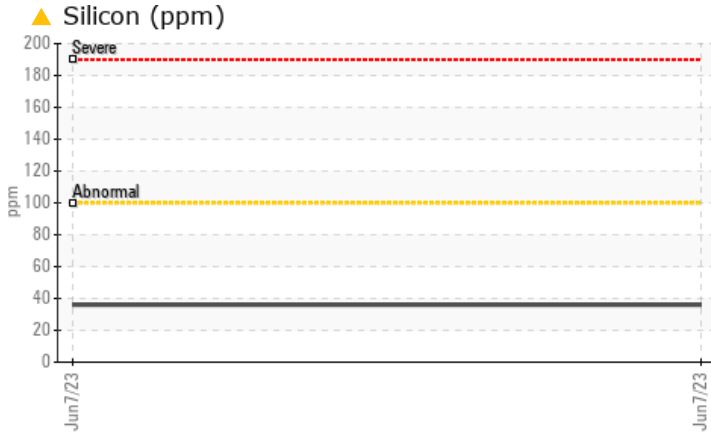


Machine Id  
**948000**

Component  
**Natural Gas Engine**

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

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	---	---
Silicon	ppm	ASTM D5185m	>+100	▲ 36	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	▲ 3.9	---	---

Customer Id: GFL932  
Sample No.: GFL0071275  
Lab Number: 05889962  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

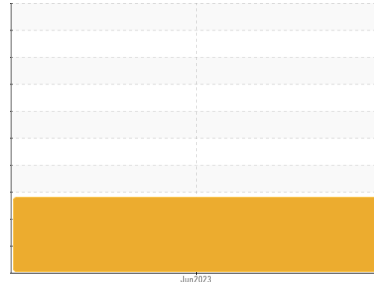
Action	Status	Date	Done By	Description
Service/change Fluid	---	---	?	The oil is near the end of it's useful service life, recommend schedule an oil change.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**948000**

Component  
**Natural Gas Engine**

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

## DIAGNOSIS

### ▲ Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### ▲ Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>GFL0071275</b>	---	---
Sample Date	Client Info	<b>07 Jun 2023</b>	---	---
Machine Age	hrs	Client Info	<b>5254</b>	---
Oil Age	hrs	Client Info	<b>5254</b>	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >50	<b>11</b>	---
Chromium	ppm	ASTM D5185m >4	<b>1</b>	---
Nickel	ppm	ASTM D5185m >2	<b>0</b>	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	---
Lead	ppm	ASTM D5185m >30	<b>8</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>0</b>	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 50	<b>13</b>	---
Barium	ppm	ASTM D5185m 5	<b>0</b>	---
Molybdenum	ppm	ASTM D5185m 50	<b>58</b>	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m 560	<b>841</b>	---
Calcium	ppm	ASTM D5185m 1510	<b>1579</b>	---
Phosphorus	ppm	ASTM D5185m 780	<b>816</b>	---
Zinc	ppm	ASTM D5185m 870	<b>1073</b>	---
Sulfur	ppm	ASTM D5185m 2040	<b>3113</b>	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >+100	<b>▲ 36</b>	---
Sodium	ppm	ASTM D5185m	<b>6</b>	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---

## INFRA-RED

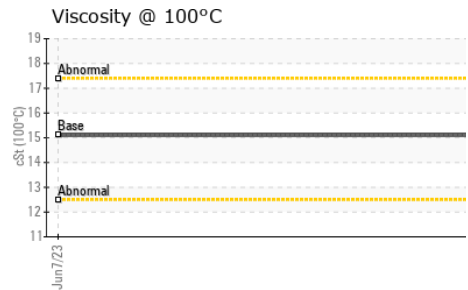
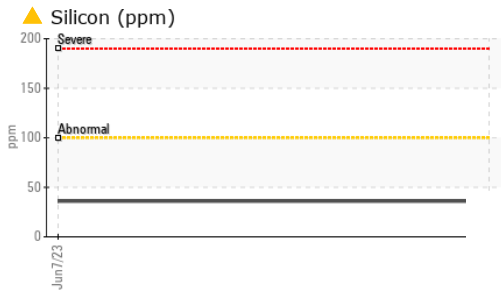
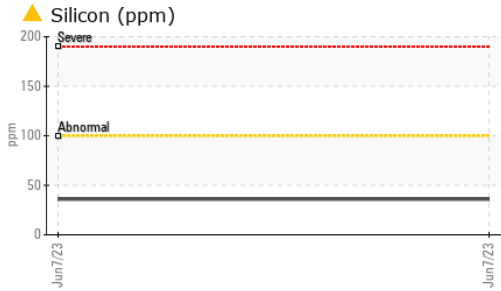
method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	<b>0.1</b>	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.8</b>	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>27.5</b>	---

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>26.3</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>▲ 3.9</b>	---



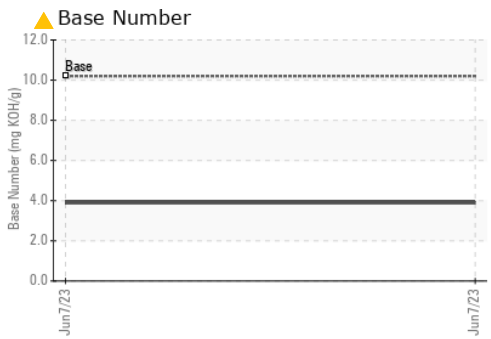
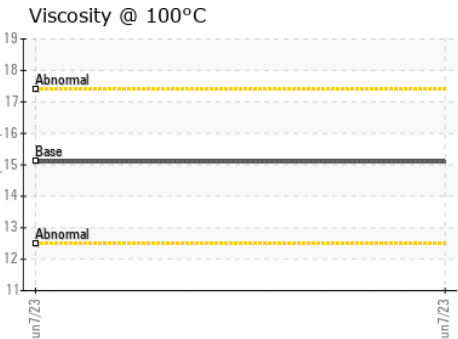
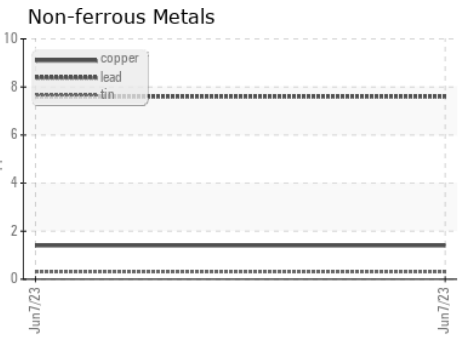
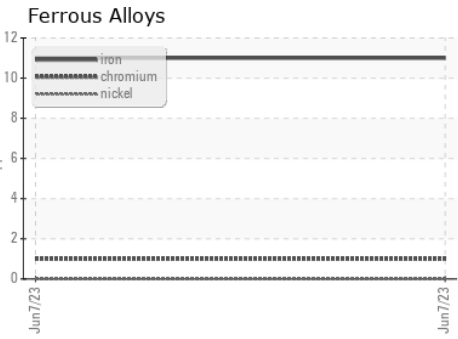
# OIL ANALYSIS REPORT



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	15.1	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0071275 **Received** : 05 Jul 2023  
**Lab Number** : 05889962 **Diagnosed** : 06 Jul 2023  
**Unique Number** : 10545772 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 932 - Muskego HC**  
 W144 S6400 College Ct.  
 Muskego, WI  
 US 53150  
 Contact: Brian Schlomann  
 brian.schlomann@gflenv.com  
 T: (262)510-4586  
 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)