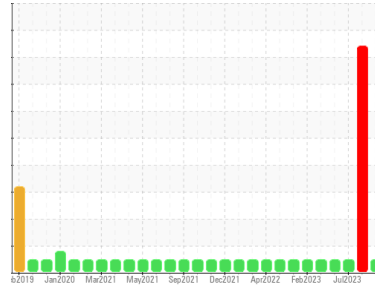




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2706C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (46 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

No evidence of coolant present in the oil. 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>GFL0099820</b>	GFL0080524	GFL0066833
Sample Date	Client Info	<b>28 Dec 2023</b>	17 Oct 2023	04 Jul 2023
Machine Age	hrs	<b>14340</b>	73012	73012
Oil Age	hrs	<b>14340</b>	73012	73012
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	SEVERE	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>16</b>	46	26
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	4	2
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	6	3
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	13	1
Copper	ppm	ASTM D5185m >35	<b>&lt;1</b>	2	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m	<b>0</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>35</b>	26	14
Barium	ppm	ASTM D5185m 5	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m 50	<b>46</b>	66	54
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m 560	<b>534</b>	511	571
Calcium	ppm	ASTM D5185m 1510	<b>1490</b>	1402	1603
Phosphorus	ppm	ASTM D5185m 780	<b>800</b>	681	728
Zinc	ppm	ASTM D5185m 870	<b>894</b>	912	988
Sulfur	ppm	ASTM D5185m 2040	<b>2496</b>	2306	2958

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	<b>9</b>	26	9
Sodium	ppm	ASTM D5185m	<b>29</b>	▲ 662	14
Potassium	ppm	ASTM D5185m >20	<b>20</b>	▲ 510	5
Glycol	%	*ASTM D2982	<b>---</b>	◆ 0.12	---

## INFRA-RED

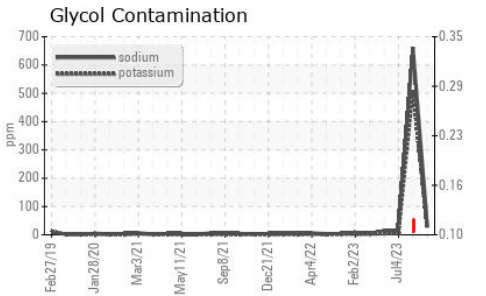
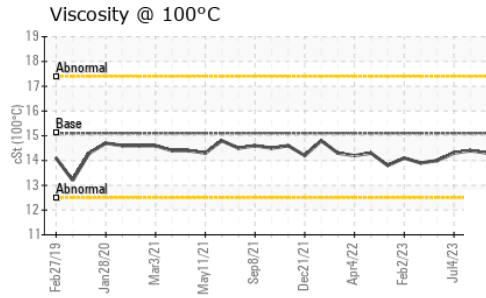
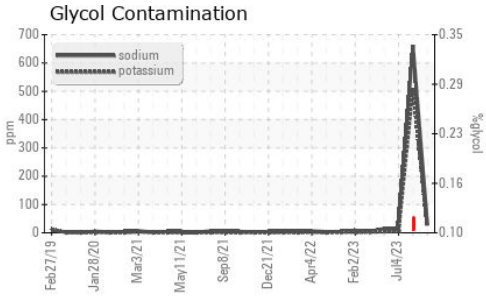
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>1.9</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.4</b>	11.8	10.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.7</b>	21.8	22.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.9</b>	16.9	17.9
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>7.7</b>	6.2	5.4



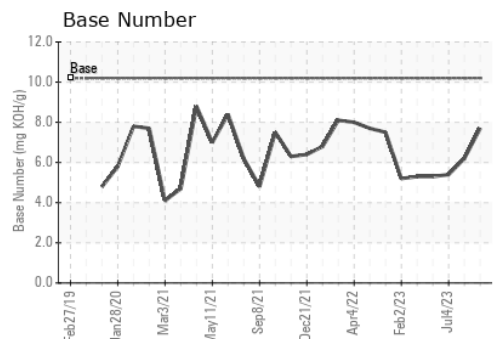
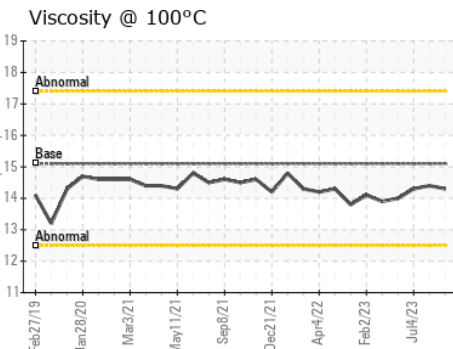
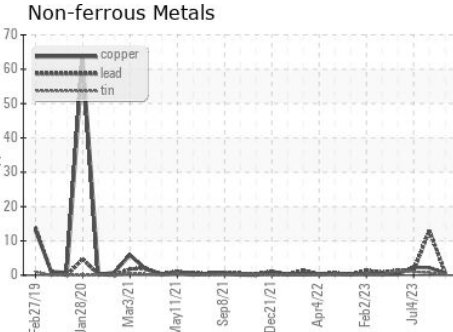
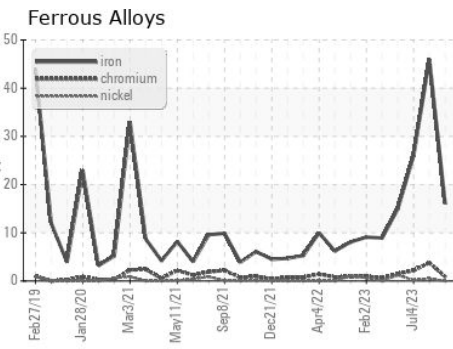
# OIL ANALYSIS REPORT



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	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	14.3	14.4

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : GFL0099820  
 Lab Number : 06053604  
 Unique Number : 10819553  
 Test Package : FLEET

**GFL Environmental - 018 - Fayetteville**  
 4621 Marracco Drive  
 Hope Mills, NC  
 US 28348  
 Contact: Robert Carter  
 robert.carter@gflenv.com  
 T: (910)596-1170  
 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)