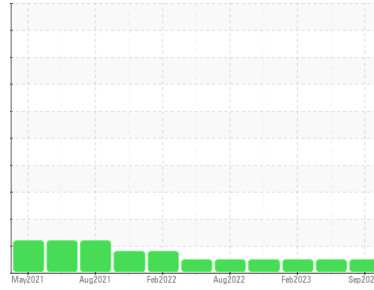




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**944012**

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>GFL0089720</b>	GFL0077337	GFL0073633
Sample Date	Client Info		<b>12 Sep 2023</b>	19 Apr 2023	27 Feb 2023
Machine Age	hrs	Client Info	<b>14620</b>	13596	21520
Oil Age	hrs	Client Info	<b>1024</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>4</b>	14	15
Chromium	ppm	ASTM D5185m >4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >9	<b>3</b>	2	3
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	0	3
Copper	ppm	ASTM D5185m >35	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	2
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>27</b>	16	21
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>51</b>	52	48
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m 560	<b>600</b>	623	802
Calcium	ppm	ASTM D5185m 1510	<b>1640</b>	1508	1274
Phosphorus	ppm	ASTM D5185m 780	<b>793</b>	792	731
Zinc	ppm	ASTM D5185m 870	<b>996</b>	1027	951
Sulfur	ppm	ASTM D5185m 2040	<b>2992</b>	2755	2358

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>3</b>	5	19
Sodium	ppm	ASTM D5185m	<b>5</b>	3	5
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	1

## INFRA-RED

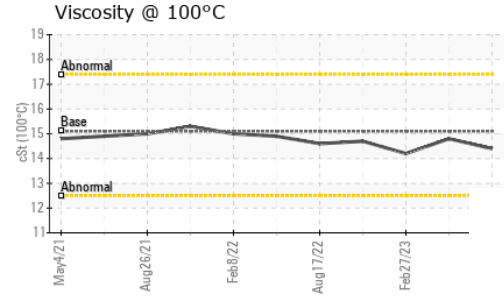
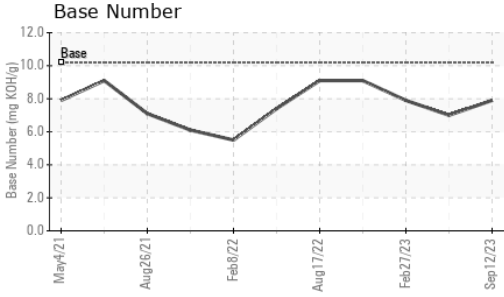
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.7</b>	8.4	9.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.5</b>	19.1	19.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>14.6</b>	16.4	17.7
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>7.9</b>	7.0	7.9



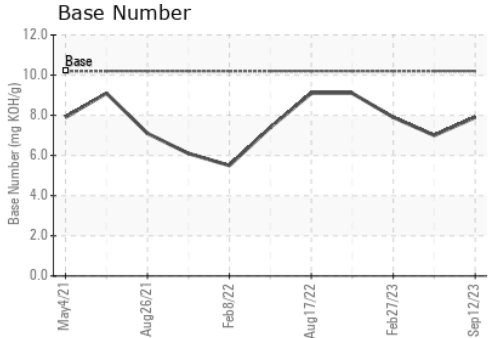
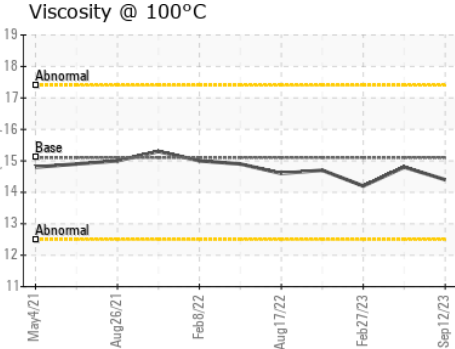
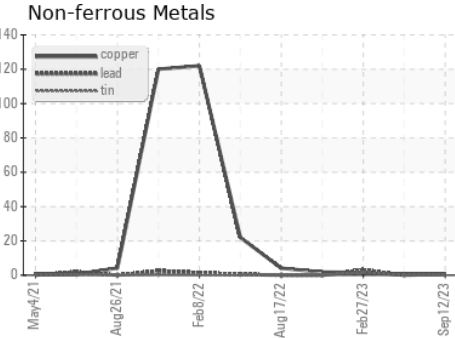
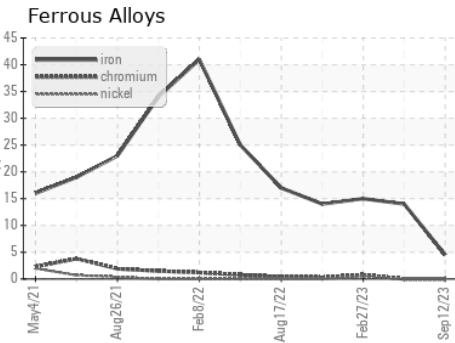
# OIL ANALYSIS REPORT



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	LIGHT
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>14.4</b>	14.8	14.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0089720 **Received** : 14 Sep 2023  
**Lab Number** : **05951027** **Diagnosed** : 16 Sep 2023  
**Unique Number** : 10646986 **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)

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F: