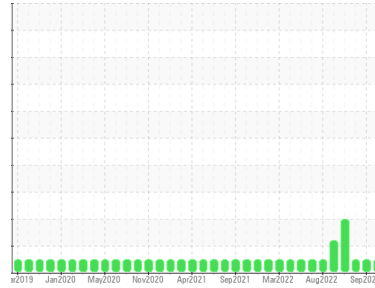




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**3818C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (9 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	history1	history2
Sample Number	Client Info		<b>GFL0087519</b>	GFL0087472	GFL0071826
Sample Date	Client Info		<b>05 Oct 2023</b>	14 Sep 2023	16 Jun 2023
Machine Age	hrs	Client Info	<b>12099</b>	11967	11432
Oil Age	hrs	Client Info	<b>1029</b>	897	362
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>15</b>	13	11
Chromium	ppm	ASTM D5185m >4	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>5</b>	2	1
Lead	ppm	ASTM D5185m >30	<b>18</b>	13	9
Copper	ppm	ASTM D5185m >35	<b>4</b>	4	3
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>10</b>	8	13
Barium	ppm	ASTM D5185m 5	<b>0</b>	44	0
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	55	56
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m 560	<b>615</b>	573	625
Calcium	ppm	ASTM D5185m 1510	<b>1681</b>	1568	1793
Phosphorus	ppm	ASTM D5185m 780	<b>852</b>	743	829
Zinc	ppm	ASTM D5185m 870	<b>1059</b>	963	1038
Sulfur	ppm	ASTM D5185m 2040	<b>2686</b>	2446	2963

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>7</b>	6	5
Sodium	ppm	ASTM D5185m	<b>11</b>	10	8
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	0

## INFRA-RED

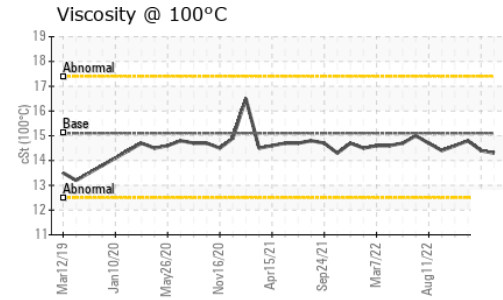
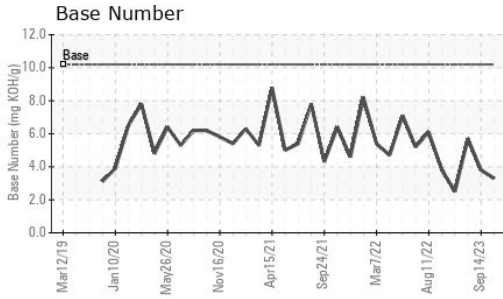
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.7</b>	11.7	11.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>25.6</b>	24.4	22.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.4</b>	21.6	19.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.3</b>	3.8	5.7



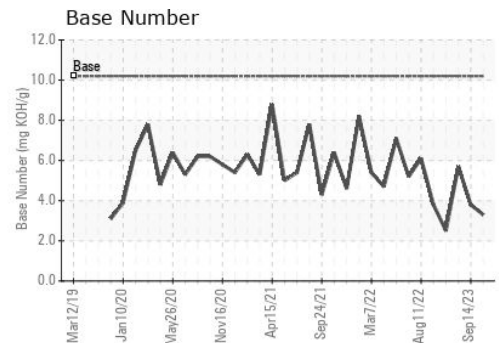
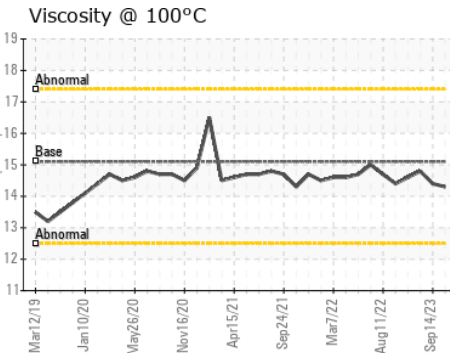
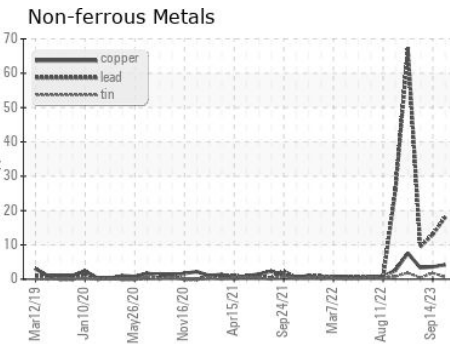
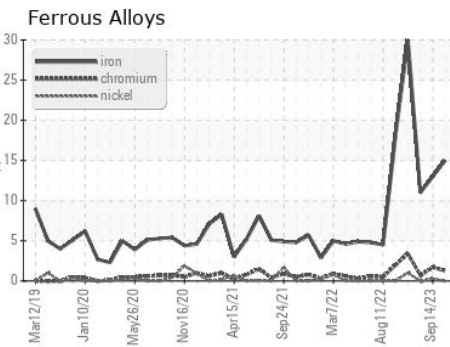
# OIL ANALYSIS REPORT



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	<b>14.3</b>	14.4	14.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0087519 **Received** : 06 Oct 2023  
**Lab Number** : **05972034** **Diagnosed** : 09 Oct 2023  
**Unique Number** : 10683984 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 331 - Columbus**  
 180 Ada Moore Rd  
 Columbus, NC  
 US 28722  
 Contact: Matt Segars  
 matt.segars@gflenv.com  
 T: (800)207-6618  
 F: (252)617-2494

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)