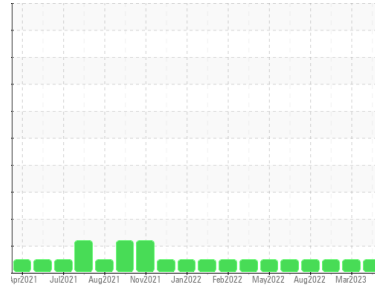


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**830024**

Component  
**2 Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (25 QTS)**

### 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>PCA0095832</b>	PCA0077346	PCA0077336
Sample Date	Client Info	<b>28 Aug 2023</b>	13 Mar 2023	10 Oct 2022
Machine Age	hrs	<b>6435</b>	5325	4181
Oil Age	hrs	<b>1110</b>	1144	718
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>16</b>	13	16
Chromium	ppm	ASTM D5185m >4	<b>3</b>	3	3
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>4</b>	3	4
Lead	ppm	ASTM D5185m >30	<b>4</b>	4	4
Copper	ppm	ASTM D5185m >35	<b>&lt;1</b>	1	2
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	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>3</b>	8	3
Barium	ppm	ASTM D5185m 5	<b>0</b>	<1	2
Molybdenum	ppm	ASTM D5185m 50	<b>51</b>	49	47
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 560	<b>565</b>	538	447
Calcium	ppm	ASTM D5185m 1510	<b>1665</b>	1535	1325
Phosphorus	ppm	ASTM D5185m 780	<b>736</b>	680	617
Zinc	ppm	ASTM D5185m 870	<b>994</b>	944	829
Sulfur	ppm	ASTM D5185m 2040	<b>2909</b>	3004	3651

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	<b>6</b>	6	8
Sodium	ppm	ASTM D5185m	<b>7</b>	4	8
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	2

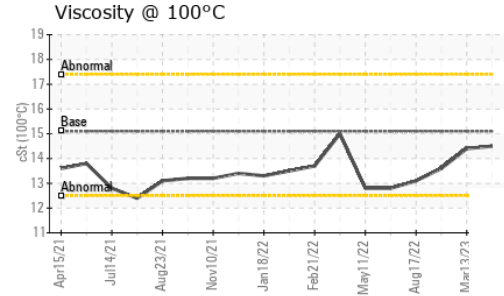
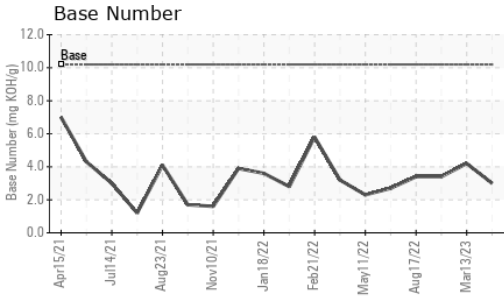
### INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.4</b>	10.3	11.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.5</b>	23.7	25.5

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>19.9</b>	17.9	18.6
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.0</b>	4.2	3.4

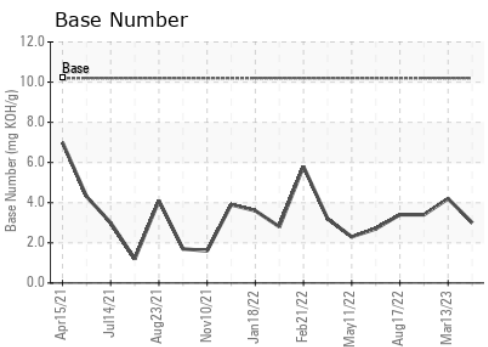
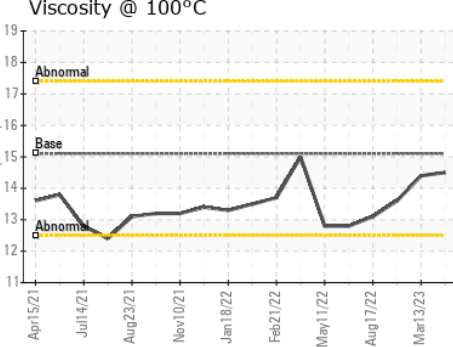
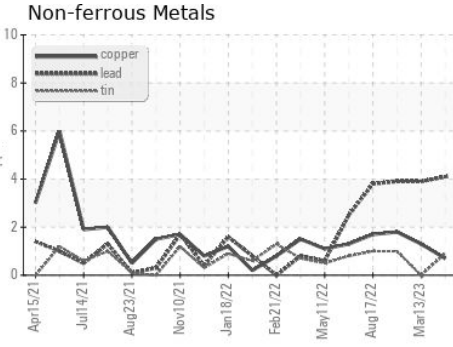
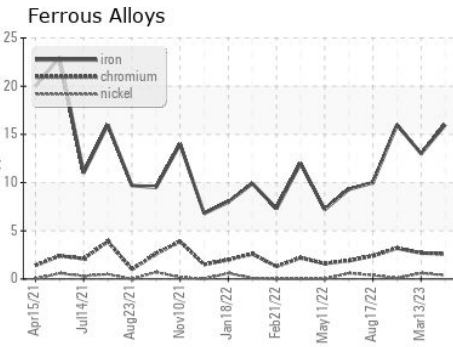
# OIL ANALYSIS REPORT



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	<b>14.5</b>	14.4	13.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0095832 **Received** : 30 Aug 2023  
**Lab Number** : **05938141** **Diagnosed** : 30 Aug 2023  
**Unique Number** : 10628753 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 002 - Vance-Granville**  
 241 Vanco Mill Rd  
 Henderson, NC  
 US 27537  
 Contact: Cameron King  
 cameron.king@gflenv.com  
 T: (252)438-5333  
 F: (252)431-1635

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)