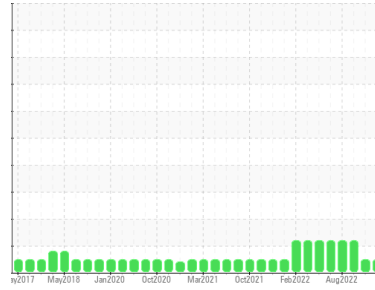




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2650C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (12 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>GFL0098115</b>	GFL0083326	GFL0047985
Sample Date	Client Info	<b>10 Nov 2023</b>	22 May 2023	15 Nov 2022
Machine Age	hrs	<b>7410</b>	7410	7410
Oil Age	hrs	<b>580</b>	613	414
Oil Changed	Client Info	<b>N/A</b>	N/A	Changed
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>7</b>	16	8
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	1	2
Lead	ppm	ASTM D5185m >30	<b>1</b>	4	2
Copper	ppm	ASTM D5185m >35	<b>2</b>	3	<1
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	3	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 50	<b>10</b>	24	20
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	2
Molybdenum	ppm	ASTM D5185m 50	<b>52</b>	53	69
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m 560	<b>532</b>	800	480
Calcium	ppm	ASTM D5185m 1510	<b>1547</b>	1345	1598
Phosphorus	ppm	ASTM D5185m 780	<b>651</b>	693	629
Zinc	ppm	ASTM D5185m 870	<b>922</b>	955	960
Sulfur	ppm	ASTM D5185m 2040	<b>2337</b>	2604	2715

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	<b>17</b>	49	12
Sodium	ppm	ASTM D5185m	<b>5</b>	22	▲ 745
Potassium	ppm	ASTM D5185m >20	<b>2</b>	3	5

## INFRA-RED

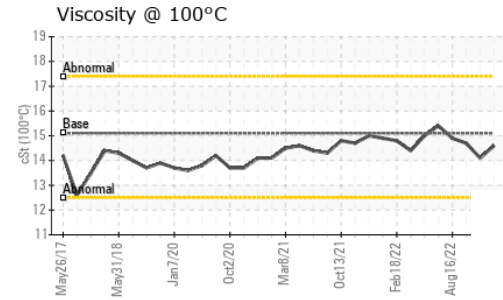
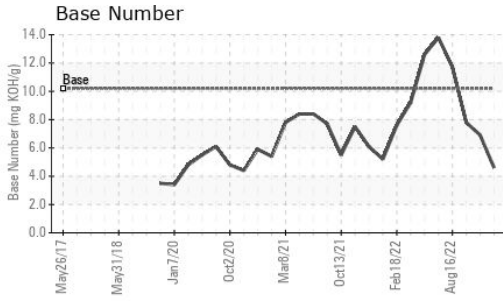
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.8</b>	11.2	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.9</b>	21.3	23.3

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.8</b>	18.9	18.9
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.6</b>	6.9	7.8



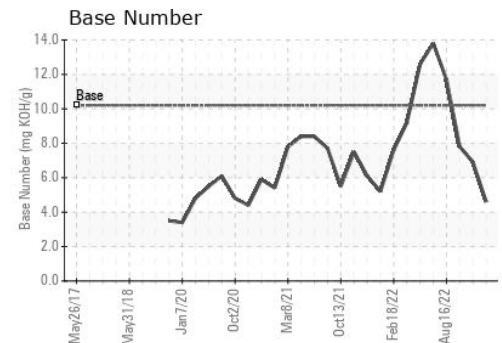
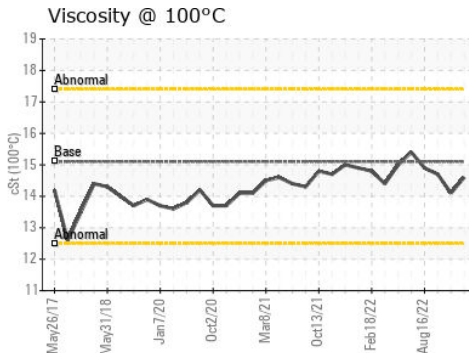
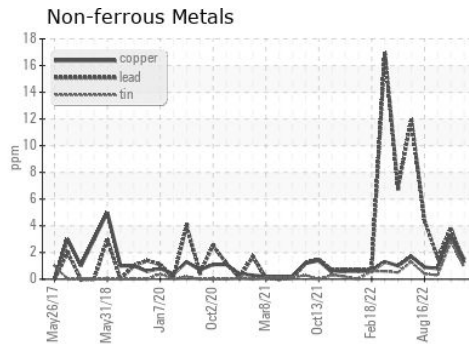
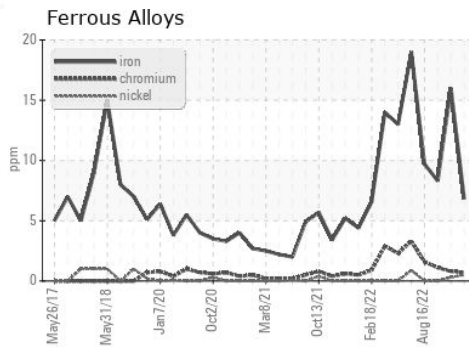
# OIL ANALYSIS REPORT



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>14.6</b>	14.1	14.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0098115 **Received** : 13 Nov 2023  
**Lab Number** : **06005401** **Diagnosed** : 15 Nov 2023  
**Unique Number** : 10739163 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 017 - Durham**  
 148 Stone Park Court  
 Durham, NC  
 US 27703  
 Contact: Shane Parks  
 shane.parks@gflenv.com  
 T: (919)596-1363  
 F: (919)598-1852

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)