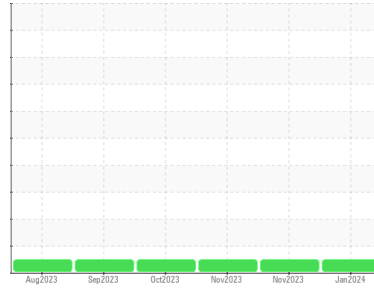




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(42KM3B)**  
Machine Id  
**834049**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>GFL0108154</b>	GFL0099961	GFL0095161
Sample Date	Client Info		<b>12 Jan 2024</b>	20 Nov 2023	01 Nov 2023
Machine Age	hrs	Client Info	<b>841</b>	408	598
Oil Age	hrs	Client Info	<b>0</b>	0	598
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>NORMAL</b>	NORMAL	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>68</b>	12	51
Chromium	ppm	ASTM D5185m >4	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>1</b>	0	<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>5</b>	3	3
Lead	ppm	ASTM D5185m >30	<b>1</b>	1	0
Copper	ppm	ASTM D5185m >35	<b>16</b>	5	16
Tin	ppm	ASTM D5185m >4	<b>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>8</b>	9	10
Barium	ppm	ASTM D5185m 5	<b>3</b>	<1	3
Molybdenum	ppm	ASTM D5185m 50	<b>54</b>	52	53
Manganese	ppm	ASTM D5185m 0	<b>13</b>	<1	12
Magnesium	ppm	ASTM D5185m 560	<b>779</b>	589	730
Calcium	ppm	ASTM D5185m 1510	<b>1253</b>	1655	1190
Phosphorus	ppm	ASTM D5185m 780	<b>719</b>	776	649
Zinc	ppm	ASTM D5185m 870	<b>916</b>	990	905
Sulfur	ppm	ASTM D5185m 2040	<b>2268</b>	2370	2192

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>32</b>	18	37
Sodium	ppm	ASTM D5185m	<b>5</b>	4	5
Potassium	ppm	ASTM D5185m >20	<b>3</b>	0	<1

## INFRA-RED

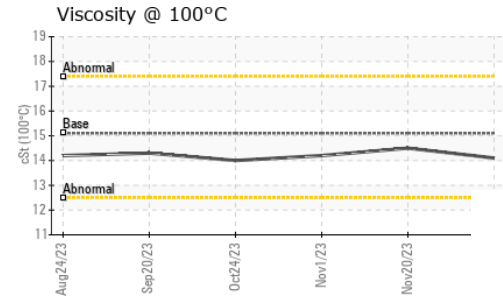
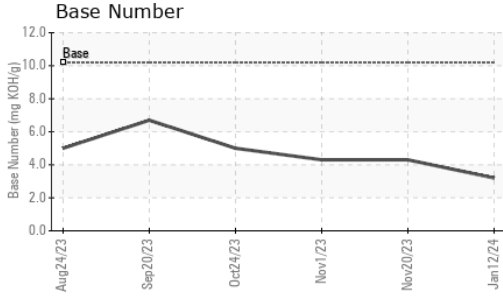
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.2</b>	10.9	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>25.2</b>	23.4	22.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>22.5</b>	19.5	21.0
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>3.2</b>	4.3	4.3



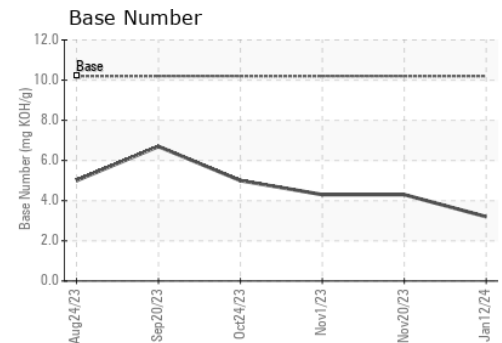
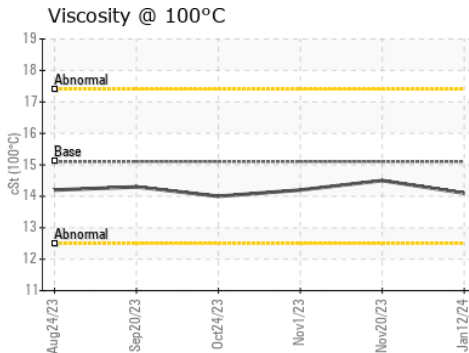
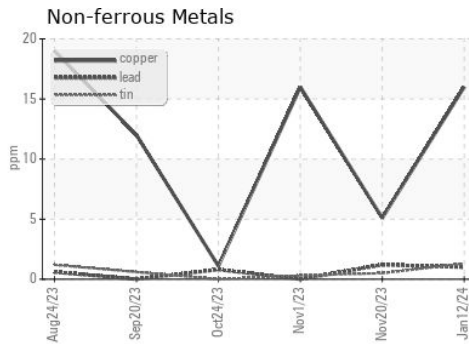
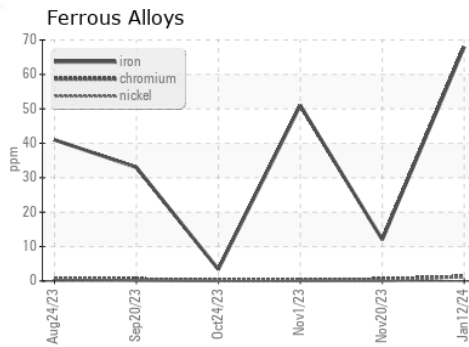
# OIL ANALYSIS REPORT



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>14.1</b>	14.5	14.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0108154 **Received** : 26 Jan 2024  
**Lab Number** : **06072137** **Diagnosed** : 29 Jan 2024  
**Unique Number** : 10848814 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Robert Hart  
 rhart@gflenv.com  
 T: (580)461-1509  
 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)