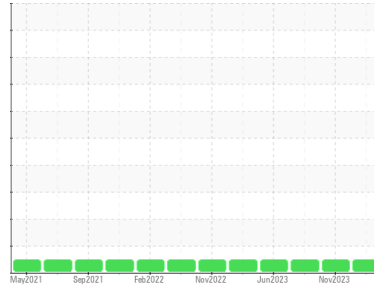




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(N4933S)**  
Machine Id  
**426083**

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>GFL0106991</b>	GFL0089746	GFL0085371
Sample Date	Client Info	<b>01 Mar 2024</b>	25 Nov 2023	23 Aug 2023
Machine Age	hrs	<b>21290</b>	20923	20572
Oil Age	hrs	<b>367</b>	351	0
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
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>18</b>	2	9
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	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>&lt;1</b>	1	1
Lead	ppm ASTM D5185m >30	<b>0</b>	0	2
Copper	ppm ASTM D5185m >35	<b>0</b>	<1	2
Tin	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	<b>2</b>	23	8
Barium	ppm ASTM D5185m 5	<b>2</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>58</b>	46	55
Manganese	ppm ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m 560	<b>888</b>	550	596
Calcium	ppm ASTM D5185m 1510	<b>1029</b>	1407	1685
Phosphorus	ppm ASTM D5185m 780	<b>1017</b>	744	733
Zinc	ppm ASTM D5185m 870	<b>1206</b>	905	1028
Sulfur	ppm ASTM D5185m 2040	<b>2677</b>	2301	2929

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>2</b>	2	4
Sodium	ppm ASTM D5185m	<b>17</b>	6	8
Potassium	ppm ASTM D5185m >20	<b>6</b>	2	4

## INFRA-RED

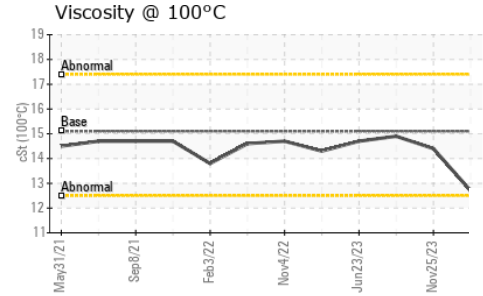
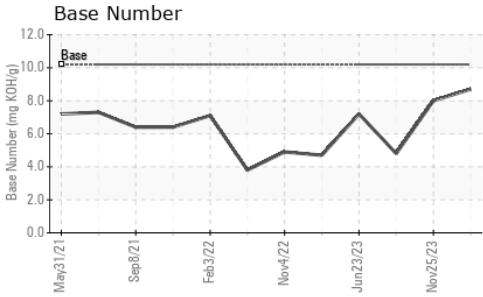
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>1.5</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>10.1</b>	8.4	11.0
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.8</b>	18.9	22.8

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>16.4</b>	16.2	19.0
Base Number (BN)	mg KOH/g ASTM D2896 10.2	<b>8.7</b>	8.0	4.8



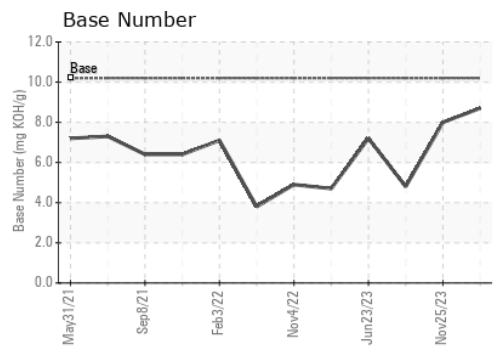
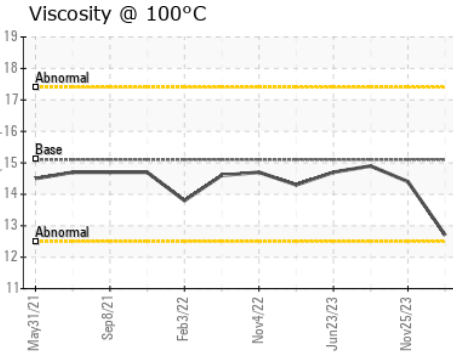
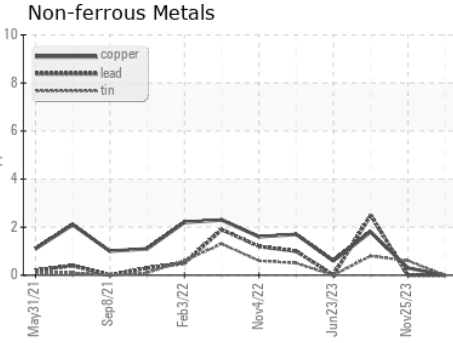
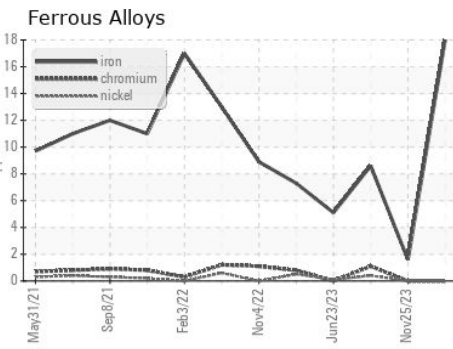
# OIL ANALYSIS REPORT



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	12.7	14.4	14.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0106991      **Received** : 05 Mar 2024  
**Lab Number** : 06109130      **Tested** : 06 Mar 2024  
**Unique Number** : 10912627      **Diagnosed** : 07 Mar 2024 - Sean Felton  
**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: