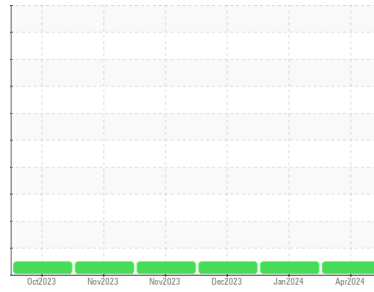




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**834055**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

## 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>GFL0114133</b>	GFL0108163	GFL0102433
Sample Date	Client Info		<b>01 Apr 2024</b>	15 Jan 2024	20 Dec 2023
Machine Age	hrs	Client Info	<b>992</b>	879	716
Oil Age	hrs	Client Info	<b>992</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	N/A
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>60</b>	55	52
Chromium	ppm	ASTM D5185m >4	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m >2	<b>2</b>	2	<1
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>5</b>	7	4
Lead	ppm	ASTM D5185m >30	<b>2</b>	2	2
Copper	ppm	ASTM D5185m >35	<b>18</b>	20	21
Tin	ppm	ASTM D5185m >4	<b>2</b>	3	2
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>17</b>	27	4
Barium	ppm	ASTM D5185m 5	<b>5</b>	0	3
Molybdenum	ppm	ASTM D5185m 50	<b>58</b>	55	54
Manganese	ppm	ASTM D5185m 0	<b>13</b>	13	14
Magnesium	ppm	ASTM D5185m 560	<b>737</b>	796	873
Calcium	ppm	ASTM D5185m 1510	<b>1412</b>	1257	1298
Phosphorus	ppm	ASTM D5185m 780	<b>782</b>	765	735
Zinc	ppm	ASTM D5185m 870	<b>984</b>	973	965
Sulfur	ppm	ASTM D5185m 2040	<b>2529</b>	2453	2360

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>24</b>	31	32
Sodium	ppm	ASTM D5185m	<b>6</b>	47	4
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	1

## INFRA-RED

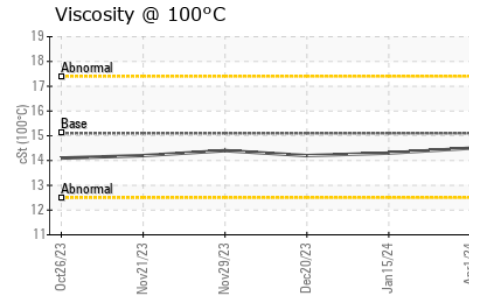
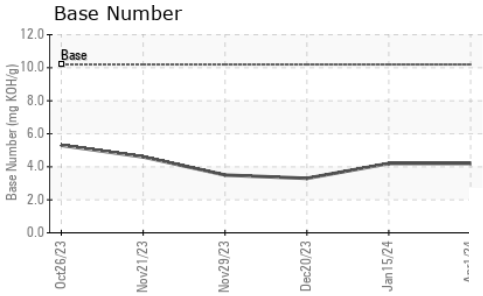
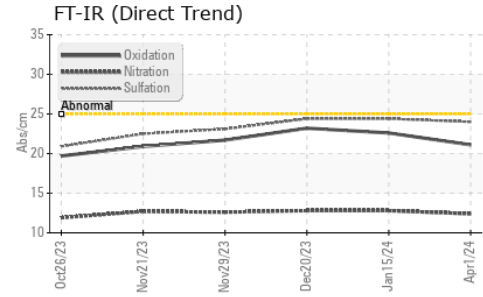
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.4</b>	12.8	12.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.0</b>	24.4	24.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.1</b>	22.6	23.2
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.2</b>	4.2	3.3



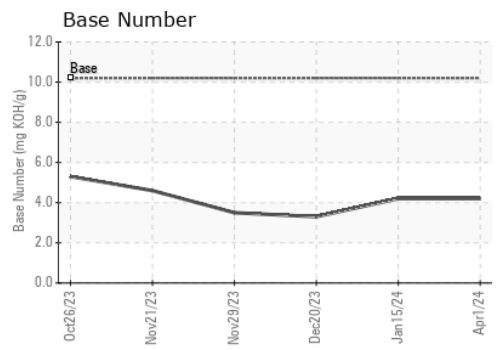
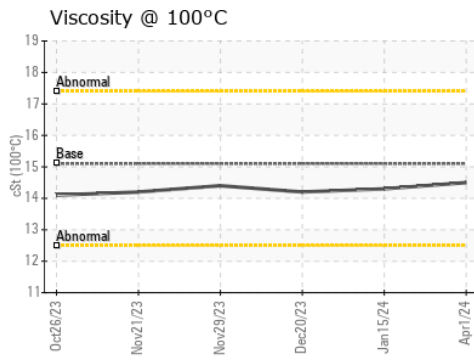
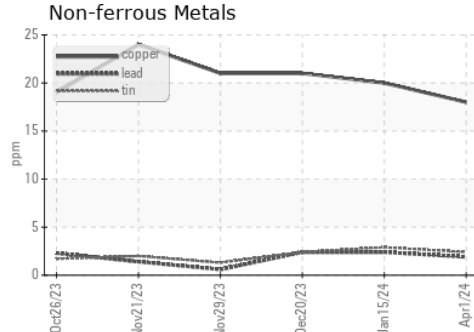
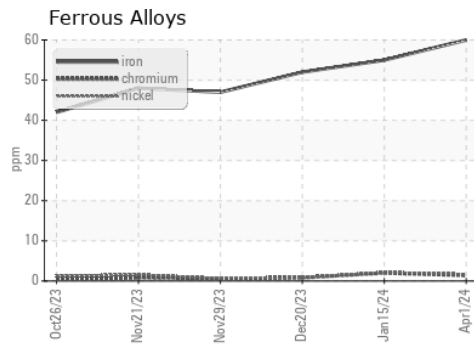
# OIL ANALYSIS REPORT



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	14.5	14.3

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0114133      **Received** : 09 Apr 2024  
**Lab Number** : 06143553      **Tested** : 10 Apr 2024  
**Unique Number** : 10968361      **Diagnosed** : 10 Apr 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 837 - Harrison TS**  
 22820 S State Route 291  
 Harrisonville, MO 64701  
 Contact: SARA PATRICK  
 spatrack@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)