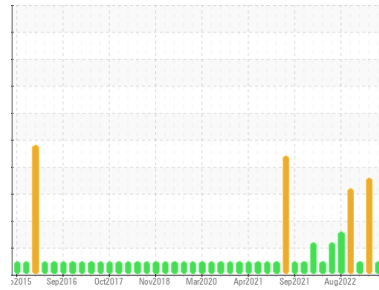




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA115779)**

Machine Id  
**10372C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (30 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>GFL0123437</b>	GFL0082498	GFL0050739
Sample Date	Client Info		<b>18 Jun 2024</b>	28 Aug 2023	22 Feb 2023
Machine Age	hrs	Client Info	<b>117611</b>	13820	12614
Oil Age	hrs	Client Info	<b>117611</b>	1228	224
Oil Changed	Client Info		<b>N/A</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	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>4</b>	28	8
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	2	0
Nickel	ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185m >30	<b>2</b>	19	1
Copper	ppm	ASTM D5185m >35	<b>&lt;1</b>	6	<1
Tin	ppm	ASTM D5185m >4	<b>0</b>	2	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>43</b>	12	25
Barium	ppm	ASTM D5185m 5	<b>0</b>	44	0
Molybdenum	ppm	ASTM D5185m 50	<b>48</b>	29	42
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m 560	<b>571</b>	293	424
Calcium	ppm	ASTM D5185m 1510	<b>1658</b>	862	1398
Phosphorus	ppm	ASTM D5185m 780	<b>842</b>	447	633
Zinc	ppm	ASTM D5185m 870	<b>1016</b>	464	740
Sulfur	ppm	ASTM D5185m 2040	<b>3050</b>	1851	2244

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>4</b>	13	3
Sodium	ppm	ASTM D5185m	<b>4</b>	9	3
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	0

## INFRA-RED

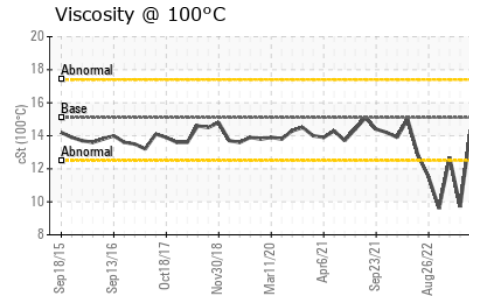
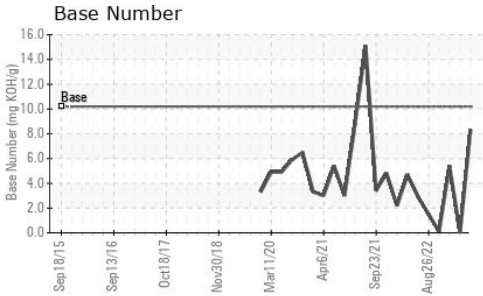
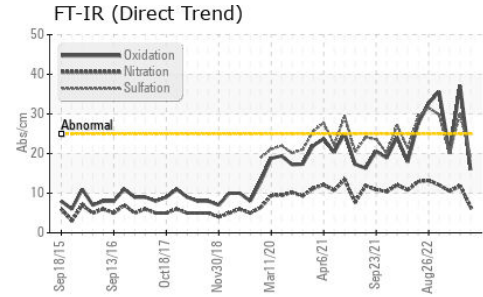
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.5</b>	11.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.1</b>	30.1	20.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.9</b>	37.1	20.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>8.3</b>	0.0	5.4



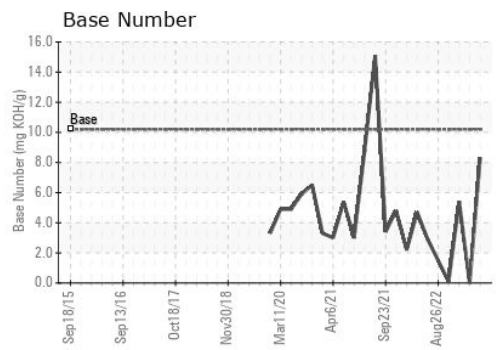
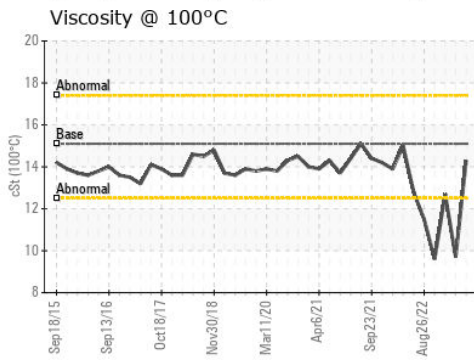
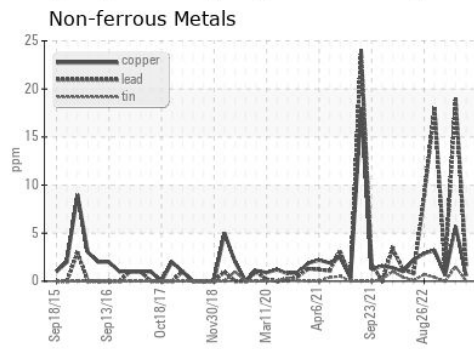
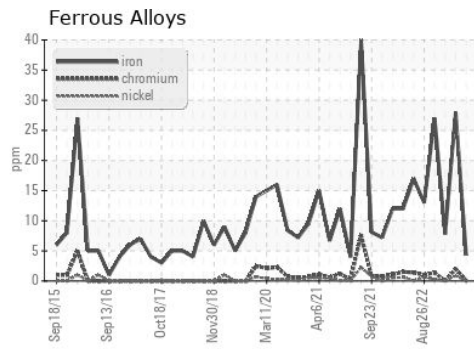
# OIL ANALYSIS REPORT



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	14.3	9.7	12.7

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123437  
**Lab Number** : 06215551  
**Unique Number** : 11088415  
**Test Package** : FLEET  
**Received** : 20 Jun 2024  
**Tested** : 21 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Wes Davis

**GFL Environmental - 007 - Brunswick**  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@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)