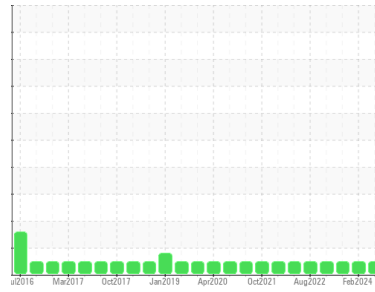




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(YA133467)**

Machine Id  
**2640C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (38 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: oil service)

### 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>GFL0124464</b>	GFL0111066	GFL0073833
Sample Date	Client Info		<b>18 Jun 2024</b>	05 Feb 2024	26 Apr 2023
Machine Age	hrs	Client Info	<b>14408</b>	13588	12514
Oil Age	hrs	Client Info	<b>875</b>	1074	1132
Oil Changed	Client Info		<b>Changed</b>	Oil Added	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>10</b>	4	13
Chromium	ppm	ASTM D5185m >4	<b>2</b>	<1	3
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>2</b>	2	2
Lead	ppm	ASTM D5185m >30	<b>11</b>	2	7
Copper	ppm	ASTM D5185m >35	<b>2</b>	0	1
Tin	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>14</b>	12	0
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>56</b>	53	54
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m 560	<b>650</b>	558	638
Calcium	ppm	ASTM D5185m 1510	<b>1970</b>	1511	1869
Phosphorus	ppm	ASTM D5185m 780	<b>888</b>	675	812
Zinc	ppm	ASTM D5185m 870	<b>1146</b>	945	1088
Sulfur	ppm	ASTM D5185m 2040	<b>3133</b>	2275	3271

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>5</b>	5	2
Sodium	ppm	ASTM D5185m	<b>7</b>	6	8
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	<1

## INFRA-RED

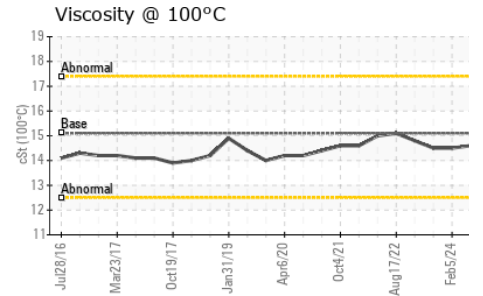
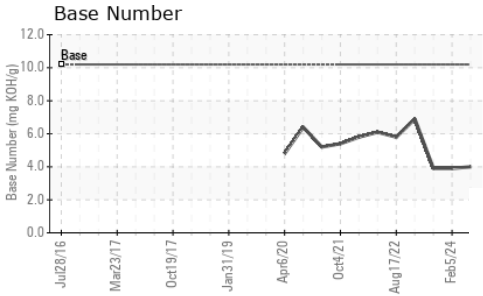
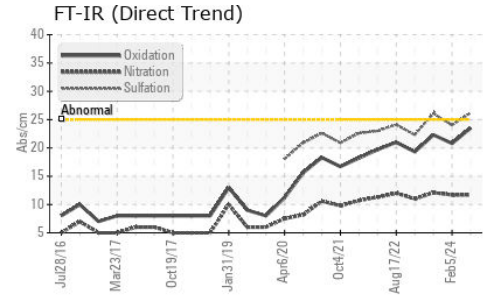
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.7</b>	11.7	12.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.2</b>	24.0	26.1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.5</b>	20.8	22.3
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	<b>4.0</b>	3.9	3.9



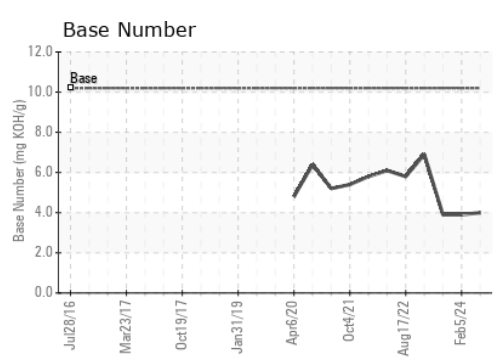
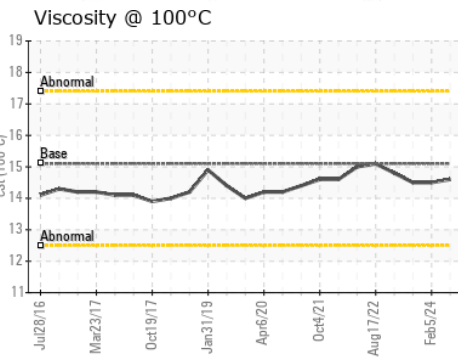
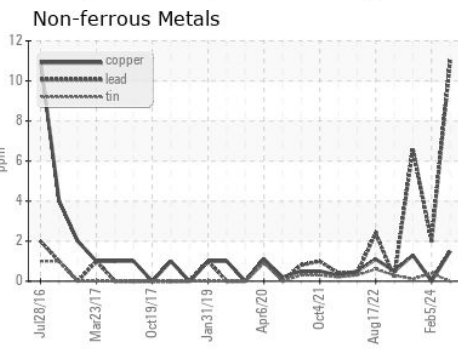
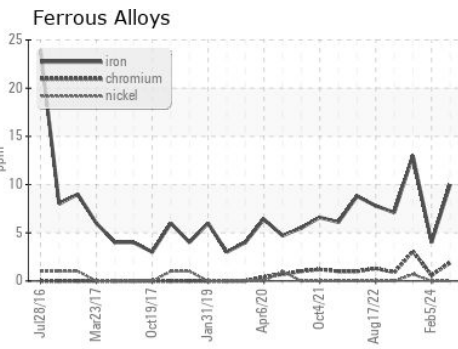
# OIL ANALYSIS REPORT



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	14.6	14.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124464      **Received** : 20 Jun 2024  
**Lab Number** : 06215662      **Tested** : 21 Jun 2024  
**Unique Number** : 11088526      **Diagnosed** : 22 Jun 2024 - Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 006 - Wilmington**  
 3618 US Highway 421 N  
 Wilmington, NC  
 US 28401  
 Contact: Eric Wood  
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 T: (717)723-1956  
 F: (910)762-6880

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)