



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**(YA133457) [oil service]**

Machine Id  
**10641C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (36 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0124483</b>	GFL0111076	GFL0087749
Sample Date		Client Info		<b>21 Jun 2024</b>	23 Apr 2024	14 Sep 2023
Machine Age	hrs	Client Info		<b>55679</b>	21279	20849
Oil Age	hrs	Client Info		<b>950</b>	742	312
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>12</b>	11	9
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	2
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>3</b>	3	1
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

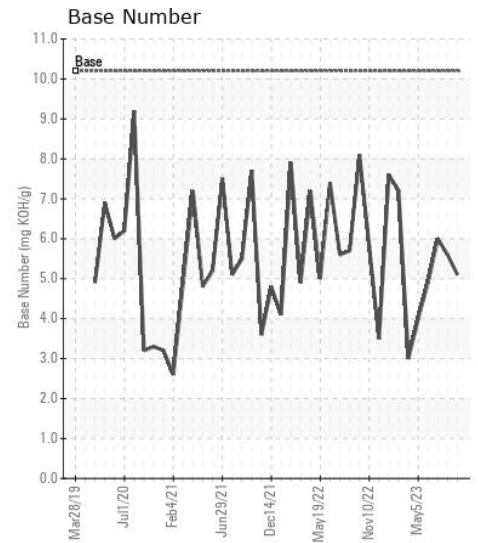
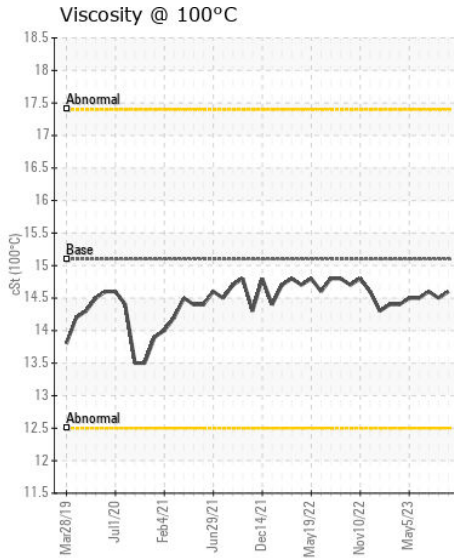
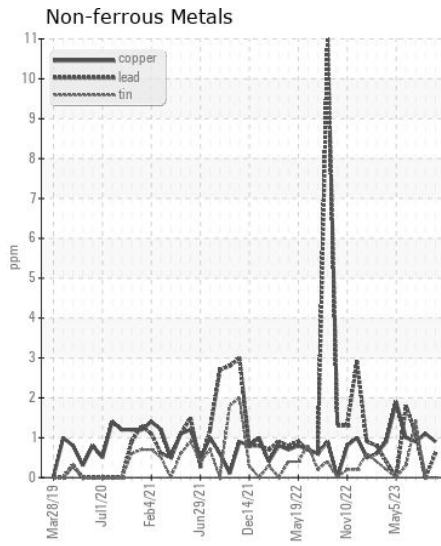
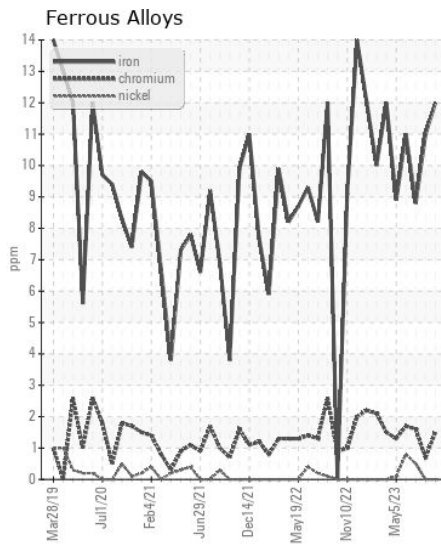
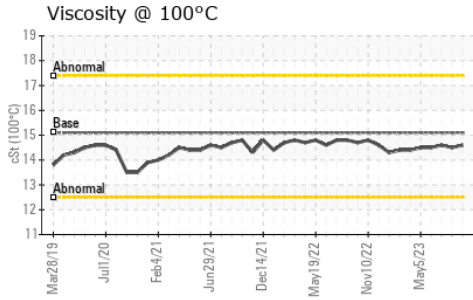
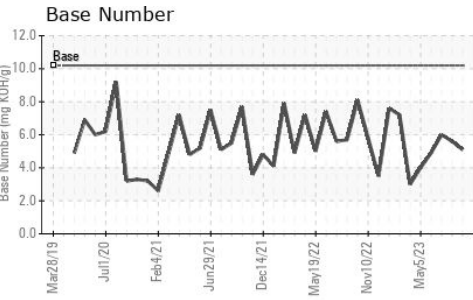
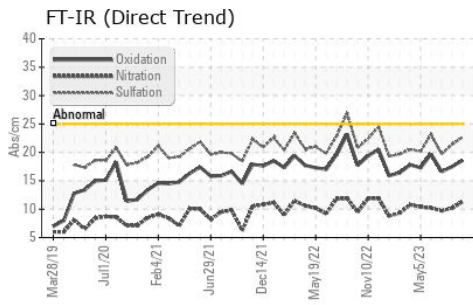
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>4</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	10.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	21.4	19.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185m		<b>5</b>	5	6
Boron	ppm	ASTM D5185m	50	<b>8</b>	14	11
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	44
Molybdenum	ppm	ASTM D5185m	50	<b>56</b>	54	51
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	560	<b>620</b>	576	523
Calcium	ppm	ASTM D5185m	1510	<b>1861</b>	1743	1465
Phosphorus	ppm	ASTM D5185m	780	<b>853</b>	764	675
Zinc	ppm	ASTM D5185m	870	<b>1091</b>	995	901
Sulfur	ppm	ASTM D5185m	2040	<b>2950</b>	2643	2490
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.6</b>	17.5	16.6
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.1</b>	5.6	6.0
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.6</b>	14.5	14.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124483  
**Lab Number** : 06217930  
**Unique Number** : 11096127  
**Test Package** : FLEET

**Received** : 24 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

**GFL Environmental - 006 - Wilmington**  
 3618 US Highway 421 N  
 Wilmington, NC  
 US 28401

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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)