



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

Machine Id  
**731119**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0124106</b>	GFL0124041	GFL0120171
Sample Date		Client Info		<b>11 Jul 2024</b>	14 Jun 2024	24 May 2024
Machine Age	hrs	Client Info		<b>8154</b>	7959	7526
Oil Age	hrs	Client Info		<b>0</b>	0	1200
Filter Age	hrs	Client Info		<b>0</b>	0	1200
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>9</b>	6	15
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	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	1
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	<1	2
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	4
Copper	ppm	ASTM D5185m	>35	<b>0</b>	0	1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

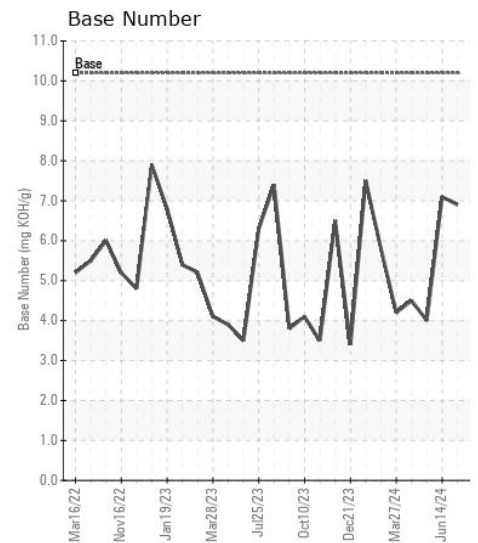
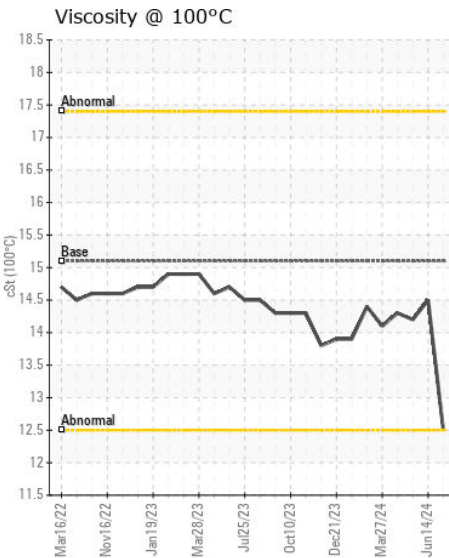
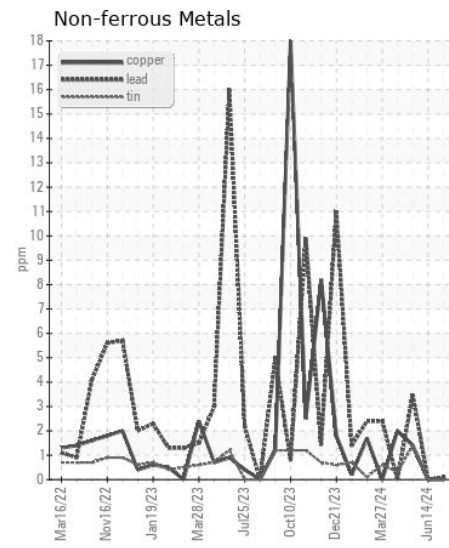
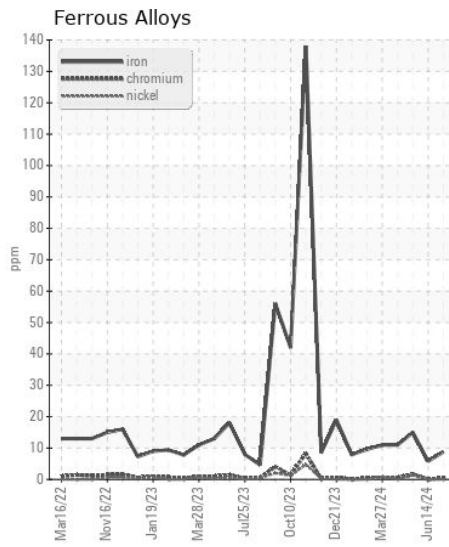
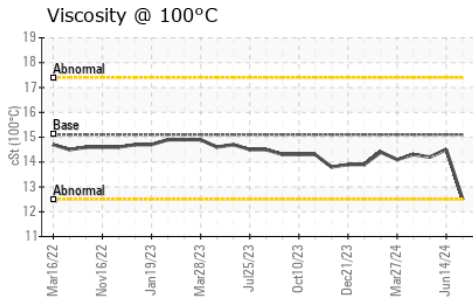
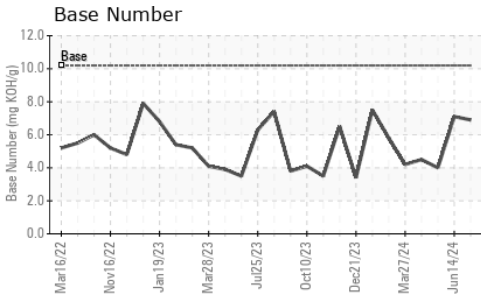
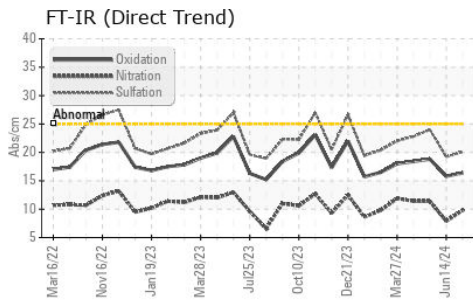
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>6</b>	3	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	7.9	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	19.2	24.0
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>6</b>	5	8
Boron	ppm	ASTM D5185m	50	<b>17</b>	26	9
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>50</b>	51	54
Manganese	ppm	ASTM D5185m	0	<b>0</b>	0	1
Magnesium	ppm	ASTM D5185m	560	<b>582</b>	638	553
Calcium	ppm	ASTM D5185m	1510	<b>1554</b>	1834	1696
Phosphorus	ppm	ASTM D5185m	780	<b>719</b>	887	806
Zinc	ppm	ASTM D5185m	870	<b>998</b>	1059	1049
Sulfur	ppm	ASTM D5185m	2040	<b>2326</b>	3232	3171
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	15.8	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>6.9</b>	7.1	4.0
Visc @ 100°C	cSt	ASTM D445	15.1	<b>12.5</b>	14.5	14.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0124106  
**Lab Number** : 06237588  
**Unique Number** : 11126422  
**Test Package** : FLEET

**Received** : 16 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Wes Davis

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@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: