



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

Area  
**(THG7557)**

Machine Id  
**733028**

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>GFL0103981</b>	GFL0103959	GFL0093323
Sample Date		Client Info		<b>08 Feb 2024</b>	11 Jan 2024	27 Oct 2023
Machine Age	hrs	Client Info		<b>1748</b>	1192	654
Oil Age	hrs	Client Info		<b>1748</b>	1192	654
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>15</b>	16	15
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>35	<b>2</b>	3	5
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

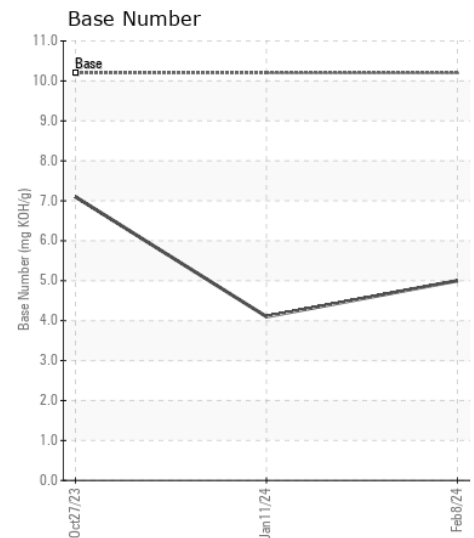
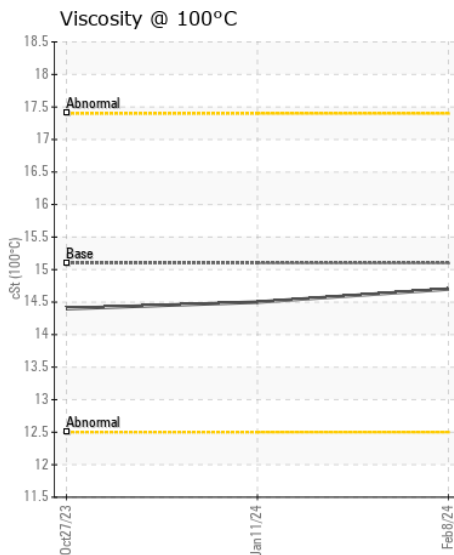
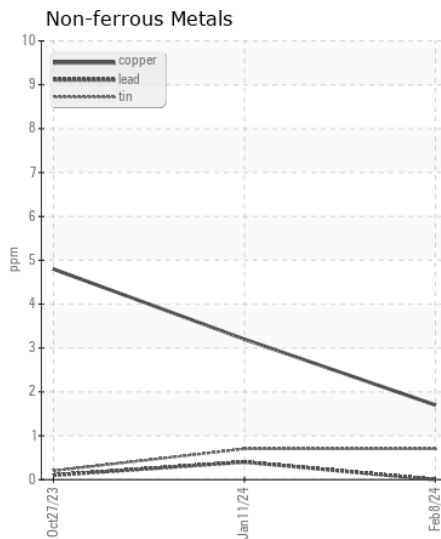
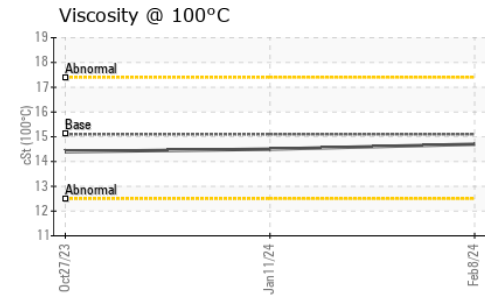
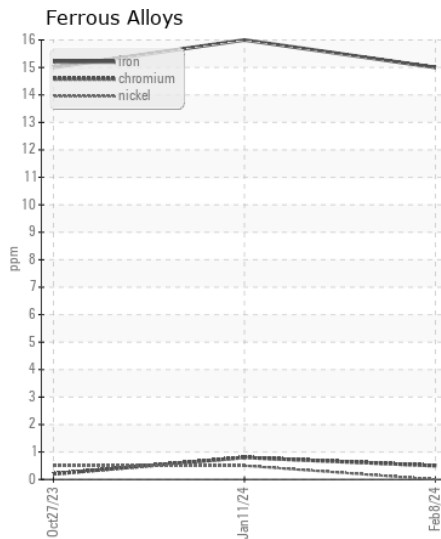
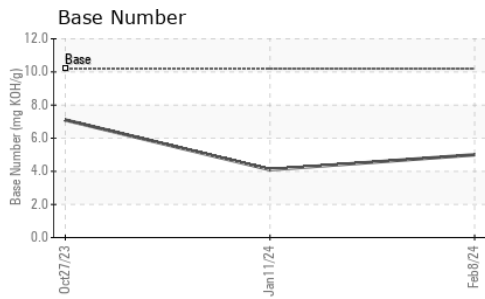
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>6</b>	10	28
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	7
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.1</b>	11.5	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	21.7	23.8
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>11</b>	8	2
Boron	ppm	ASTM D5185m	50	<b>6</b>	7	32
Barium	ppm	ASTM D5185m	5	<b>0</b>	<1	6
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	55	44
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	7
Magnesium	ppm	ASTM D5185m	560	<b>586</b>	638	642
Calcium	ppm	ASTM D5185m	1510	<b>1618</b>	1545	1240
Phosphorus	ppm	ASTM D5185m	780	<b>725</b>	762	653
Zinc	ppm	ASTM D5185m	870	<b>977</b>	1039	814
Sulfur	ppm	ASTM D5185m	2040	<b>2338</b>	2544	1971
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	18.7	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.0</b>	4.1	7.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.7</b>	14.5	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103981  
**Lab Number** : 06097530  
**Unique Number** : 10890383  
**Test Package** : FLEET

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**GFL Environmental - 865 - East Mount Hauling**  
 7213 East Mount Houston Road  
 Houston, TX  
 US 77050  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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: