



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

Machine Id  
**10743C AUTOCAR ACX**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (28 QTS)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103158</b>	GFL0056767	GFL0056642
Sample Date		Client Info		<b>18 Jan 2024</b>	09 May 2023	10 Mar 2023
Machine Age	hrs	Client Info		<b>1078</b>	6378	5996
Oil Age	hrs	Client Info		<b>0</b>	434	1353
Filter Age	hrs	Client Info		<b>0</b>	434	1353
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Piston, ring and cylinder wear is indicated.

Iron	ppm	ASTM D5185m	>50	<b>▲ 95</b>	50	36
Chromium	ppm	ASTM D5185m	>4	<b>▲ 7</b>	▲ 9	▲ 6
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>▲ 5</b>	5	5
Lead	ppm	ASTM D5185m	>30	<b>21</b>	<1	5
Copper	ppm	ASTM D5185m	>35	<b>3</b>	0	<1
Tin	ppm	ASTM D5185m	>4	<b>1</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**

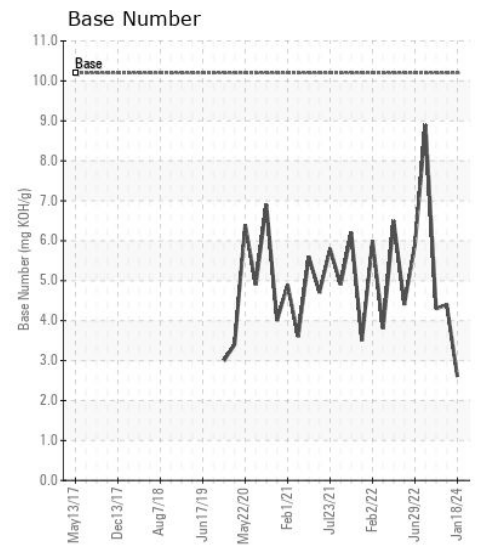
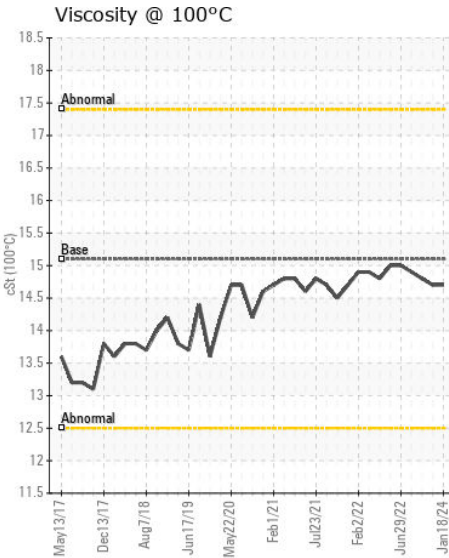
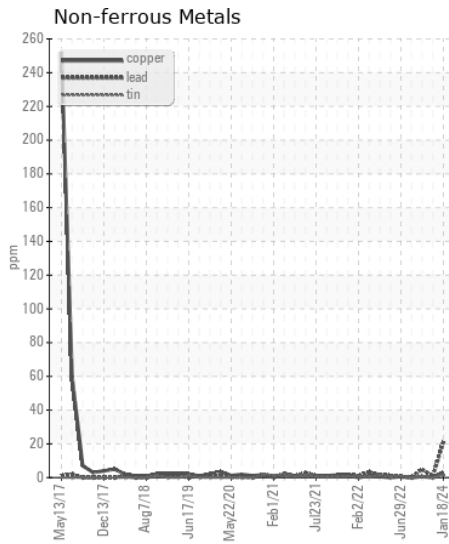
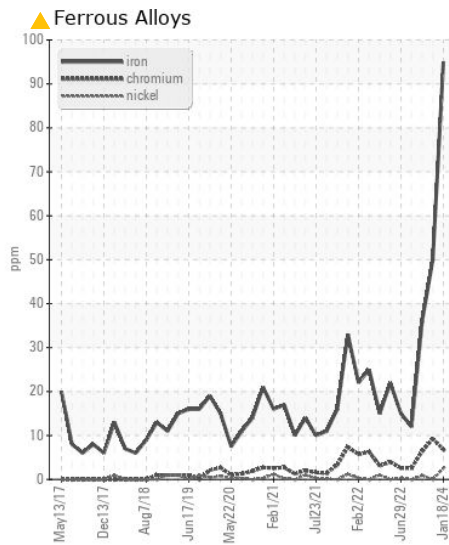
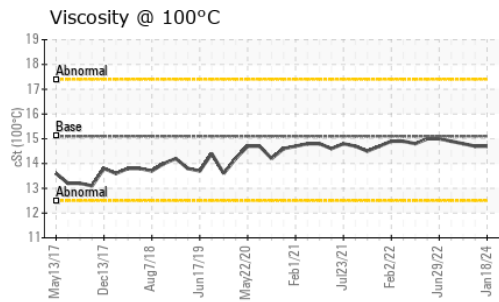
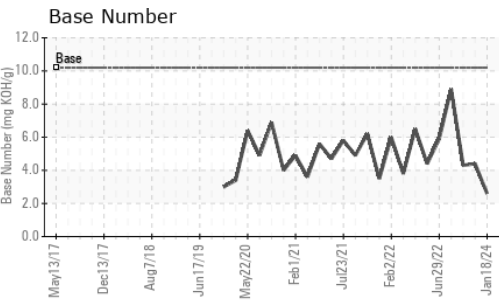
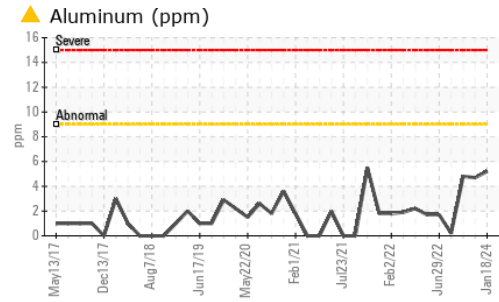
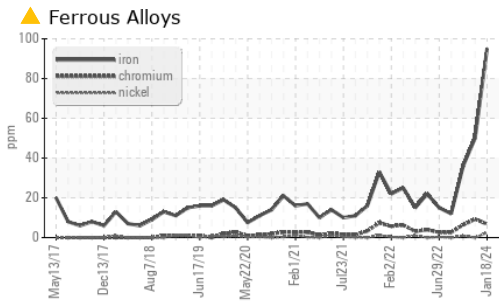
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>21</b>	15	13
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	1
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>13.2</b>	10.7	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.2</b>	22.6	24.2
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>11</b>	6	5
Boron	ppm	ASTM D5185m	50	<b>7</b>	12	12
Barium	ppm	ASTM D5185m	5	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>66</b>	52	55
Manganese	ppm	ASTM D5185m	0	<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m	560	<b>699</b>	544	559
Calcium	ppm	ASTM D5185m	1510	<b>1778</b>	1587	1656
Phosphorus	ppm	ASTM D5185m	780	<b>906</b>	714	786
Zinc	ppm	ASTM D5185m	870	<b>1131</b>	929	1001
Sulfur	ppm	ASTM D5185m	2040	<b>2632</b>	2549	2424
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.9</b>	19.6	20.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>2.6</b>	4.4	4.3
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.7</b>	14.7	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103158 **Received** : 19 Jan 2024  
**Lab Number** : 06065317 **Diagnosed** : 24 Jan 2024  
**Unique Number** : 10836699 **Diagnostician** : Doug Bogart  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
 Garner, NC  
 US 27529  
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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)