



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

Machine Id  
**3596C AUTOCAR ACX**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (48 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117510</b>	GFL0094730	GFL0056723
Sample Date		Client Info		<b>29 May 2024</b>	15 Nov 2023	04 May 2023
Machine Age	hrs	Client Info		<b>25875</b>	24701	23554
Oil Age	hrs	Client Info		<b>0</b>	0	1163
Filter Age	hrs	Client Info		<b>0</b>	0	1163
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>39</b>	28	62
Chromium	ppm	ASTM D5185m	>4	<b>3</b>	2	4
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	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>9</b>	6	8
Lead	ppm	ASTM D5185m	>30	<b>12</b>	<1	3
Copper	ppm	ASTM D5185m	>35	<b>11</b>	16	15
Tin	ppm	ASTM D5185m	>4	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

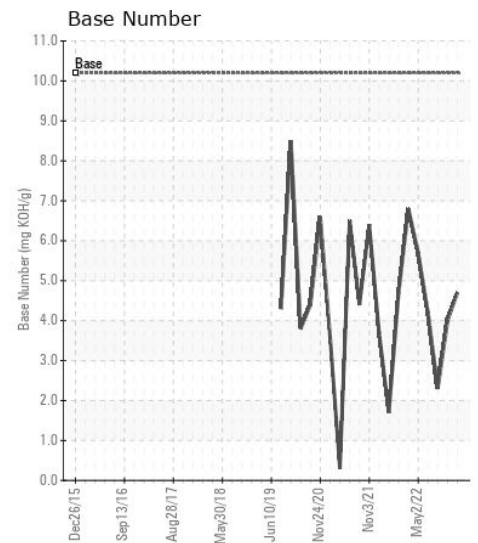
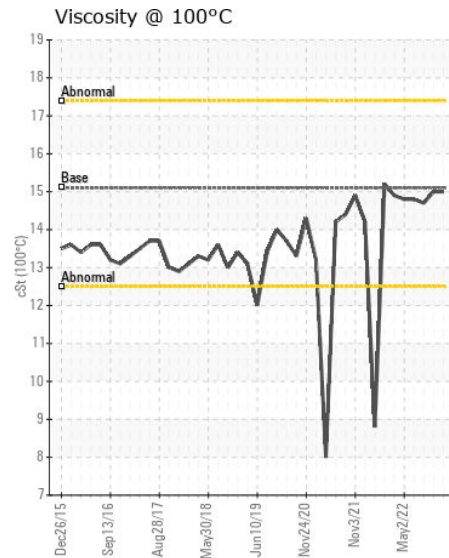
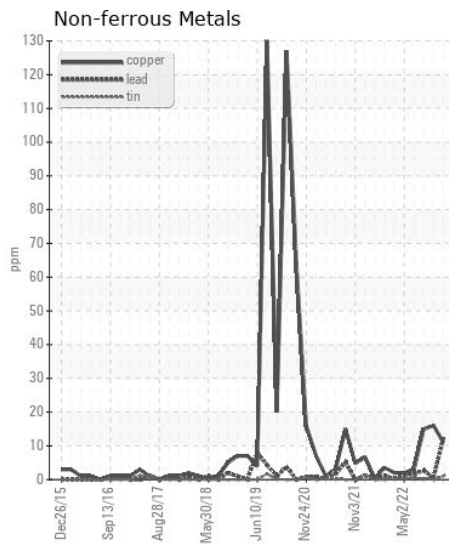
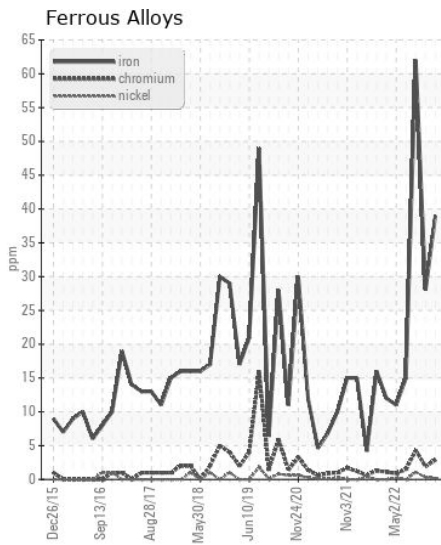
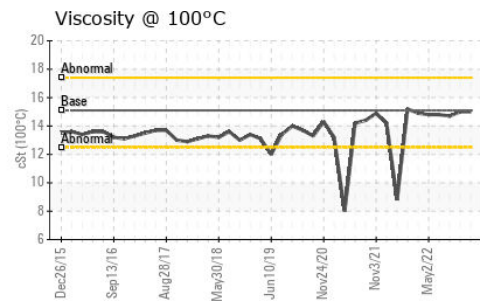
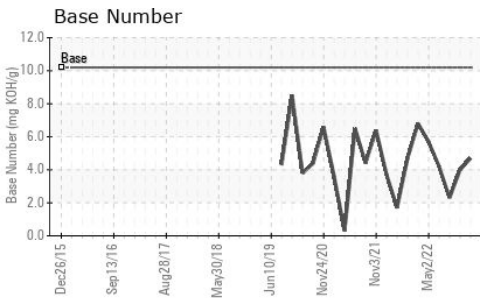
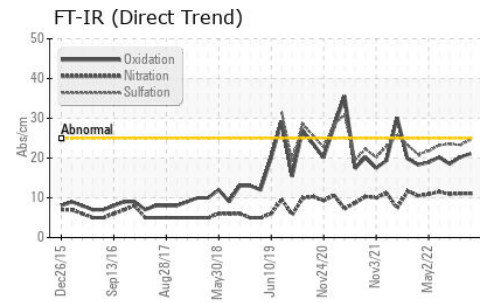
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>12</b>	13	15
Potassium	ppm	ASTM D5185m	>20	<b>21</b>	10	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>	11.1	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.6</b>	23.3	23.5
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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>14</b>	4	30
Boron	ppm	ASTM D5185m	50	<b>13</b>	2	7
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>61</b>	52	53
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	3
Magnesium	ppm	ASTM D5185m	560	<b>629</b>	562	543
Calcium	ppm	ASTM D5185m	1510	<b>1705</b>	1584	1579
Phosphorus	ppm	ASTM D5185m	780	<b>760</b>	703	650
Zinc	ppm	ASTM D5185m	870	<b>1007</b>	966	907
Sulfur	ppm	ASTM D5185m	2040	<b>2646</b>	2153	2809
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.1</b>	20.2	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.7</b>	4.0	2.3
Visc @ 100°C	cSt	ASTM D445	15.1	<b>15.0</b>	15.0	14.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117510  
**Lab Number** : 06195272  
**Unique Number** : 11057395  
**Test Package** : FLEET

**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Wes Davis

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

Contact: Craig Johnson  
 craig.johnson@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)

T: (919)662-7100  
 F: (919)662-7130