



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

Machine Id  
**3632C 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>GFL0103151</b>	GFL0089292	GFL0089300
Sample Date		Client Info		<b>16 Mar 2024</b>	12 Sep 2023	31 Jul 2023
Machine Age	hrs	Client Info		<b>25088</b>	23996	23654
Oil Age	hrs	Client Info		<b>1092</b>	342	1681
Filter Age	hrs	Client Info		<b>0</b>	0	0
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>21</b>	34	33
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	4	4
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	1	<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>	2	7
Lead	ppm	ASTM D5185m	>30	<b>1</b>	8	8
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	1	1
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**

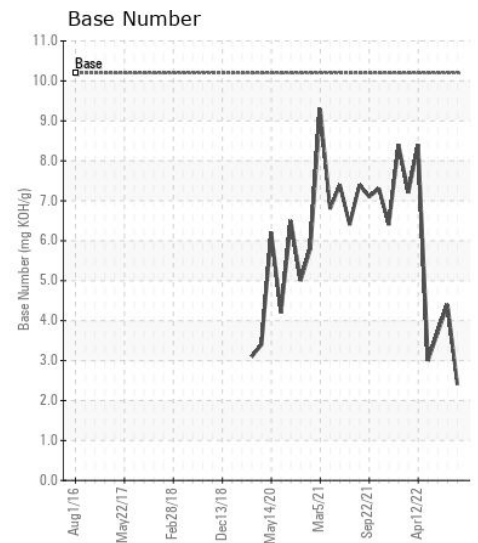
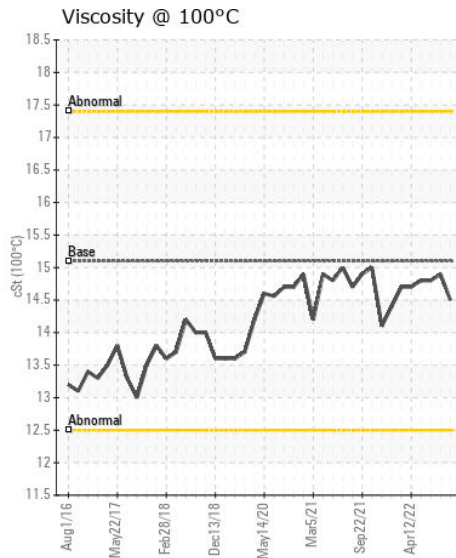
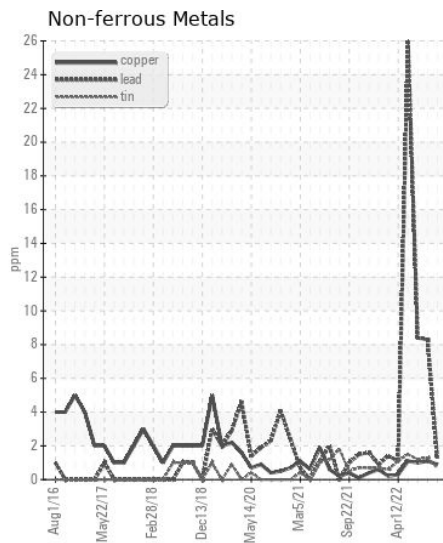
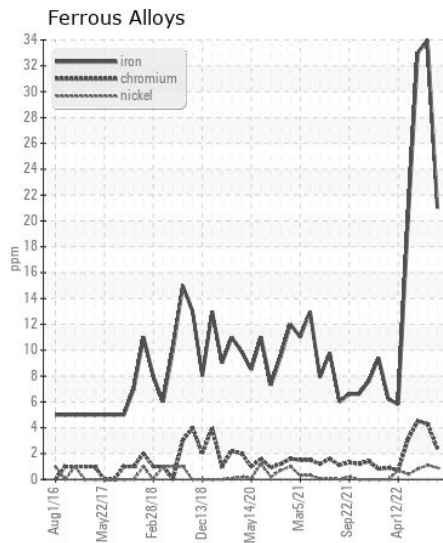
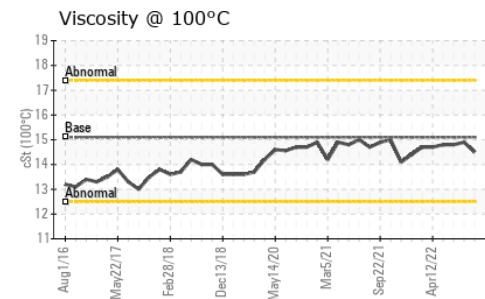
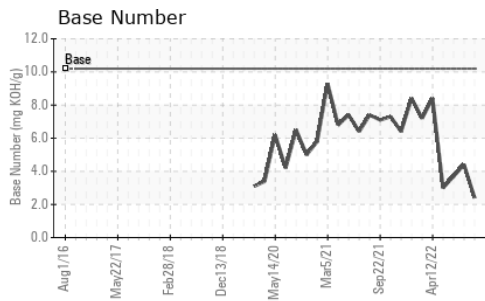
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>13</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	11.9	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.1</b>	28.1	29.2
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 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>8</b>	12	12
Boron	ppm	ASTM D5185m	50	<b>7</b>	16	12
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	68	66
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	560	<b>595</b>	756	735
Calcium	ppm	ASTM D5185m	1510	<b>1687</b>	2114	2022
Phosphorus	ppm	ASTM D5185m	780	<b>767</b>	997	960
Zinc	ppm	ASTM D5185m	870	<b>1045</b>	1241	1230
Sulfur	ppm	ASTM D5185m	2040	<b>2577</b>	3238	3247
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.0</b>	24.5	26.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>2.4</b>	4.4	3.7
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.5</b>	14.9	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103151  
**Lab Number** : 06121936  
**Unique Number** : 10936087  
**Test Package** : FLEET

**Received** : 19 Mar 2024  
**Tested** : 19 Mar 2024  
**Diagnosed** : 19 Mar 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)

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