



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

Machine Id  
**3864 AUTOCAR ACX64**  
 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>GFL0103223</b>	GFL0089276	GFL0087133
Sample Date		Client Info		<b>16 Jan 2024</b>	30 Aug 2023	18 Jul 2023
Machine Age	hrs	Client Info		<b>25819</b>	25177	24826
Oil Age	hrs	Client Info		<b>0</b>	567	216
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>22</b>	15	8
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>35	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
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**

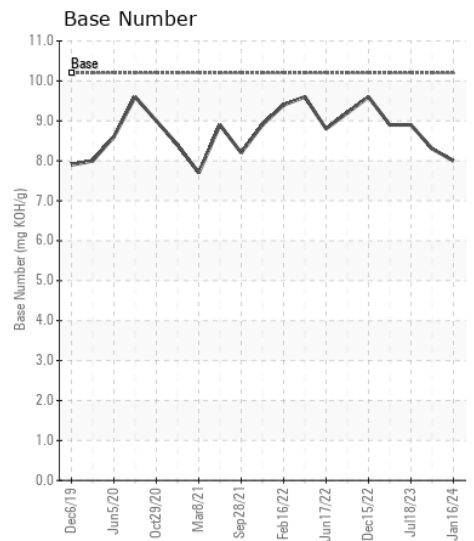
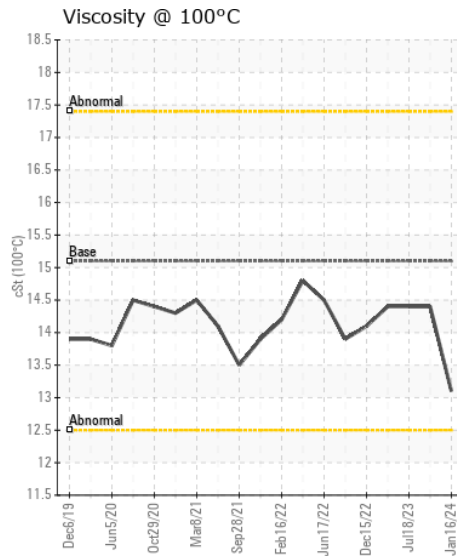
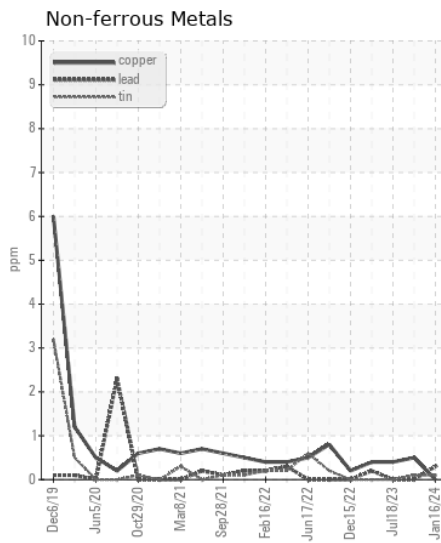
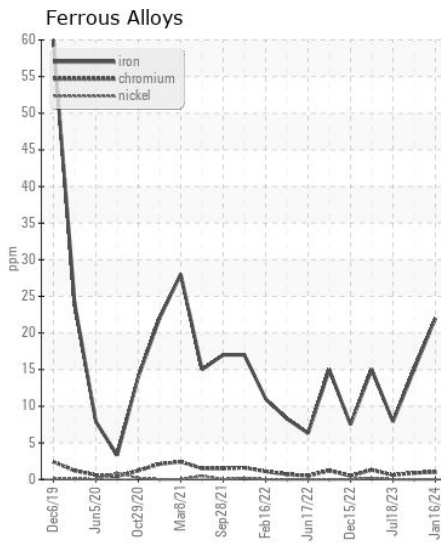
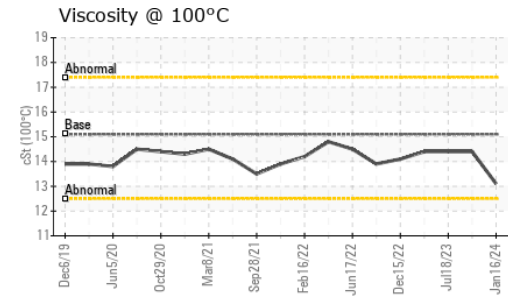
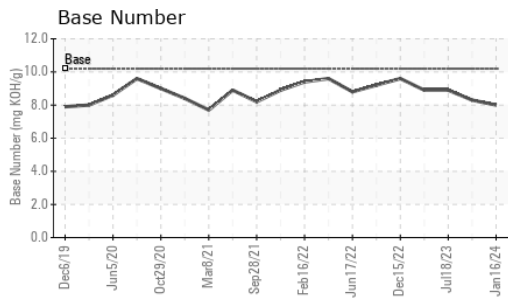
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>1.1</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.3</b>	7.6	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	18.9	18.3
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>3</b>	4	<1
Boron	ppm	ASTM D5185m	50	<b>3</b>	6	2
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	58	59
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>890</b>	918	873
Calcium	ppm	ASTM D5185m	1510	<b>955</b>	1154	1084
Phosphorus	ppm	ASTM D5185m	780	<b>1023</b>	985	1001
Zinc	ppm	ASTM D5185m	870	<b>1195</b>	1212	1194
Sulfur	ppm	ASTM D5185m	2040	<b>2851</b>	3487	3077
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	14.2	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>8.0</b>	8.3	8.9
Visc @ 100°C	cSt	ASTM D445	15.1	<b>13.1</b>	14.4	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103223 **Received** : 18 Jan 2024  
**Lab Number** : 06064150 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10835532 **Diagnostician** : Don Baldridge  
**Test Package** : FLEET

**GFL Environmental - 001 - Raleigh(CNG)**  
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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)