



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

Area

**(YA122789)**

Machine Id

**10583C AUTOCAR ACX**

Component

**Natural Gas Engine**

Fluid

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117421</b>	GFL0117530	GFL0094718
Sample Date		Client Info		<b>26 Jun 2024</b>	04 Jun 2024	14 Nov 2023
Machine Age	mls	Client Info		<b>252492</b>	251136	19921
Oil Age	mls	Client Info		<b>112351</b>	110995	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	24	8
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
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>1</b>	2	2
Lead	ppm	ASTM D5185m	>30	<b>2</b>	15	<1
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

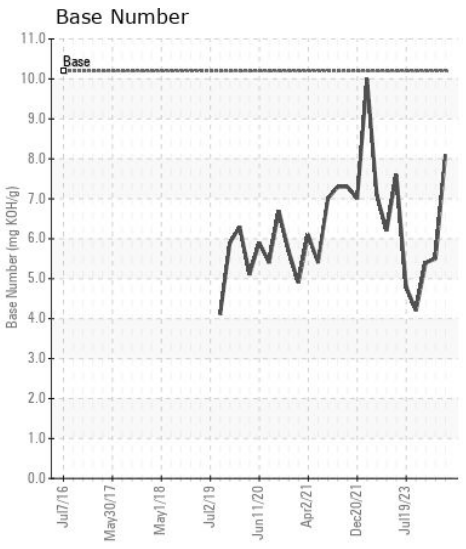
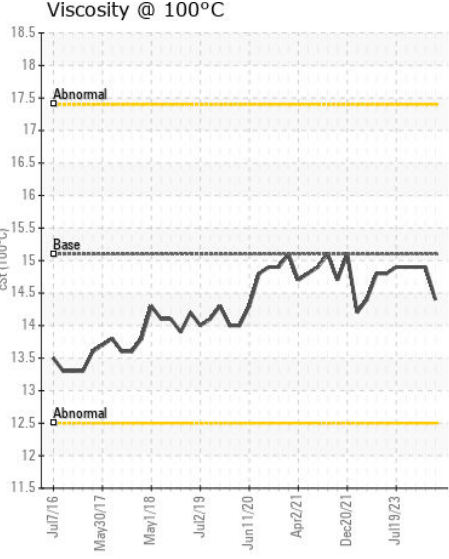
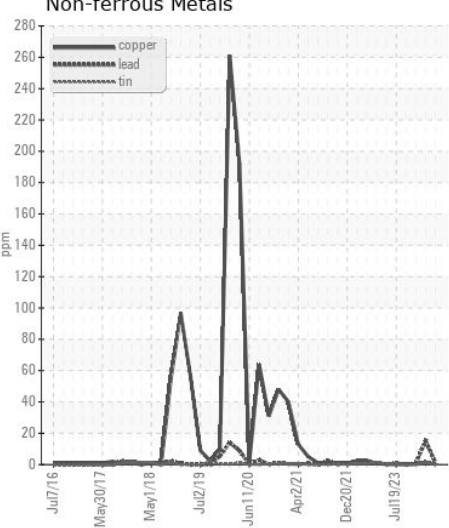
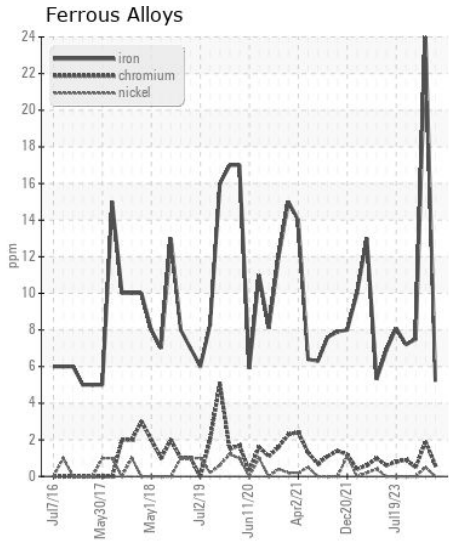
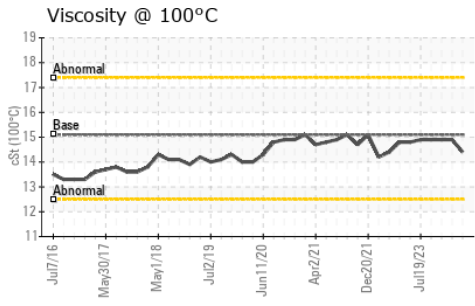
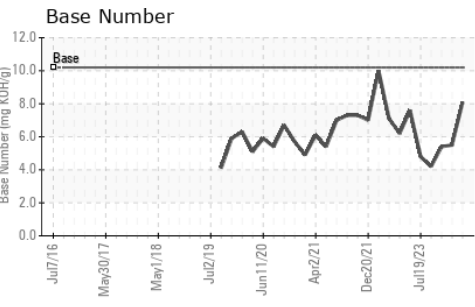
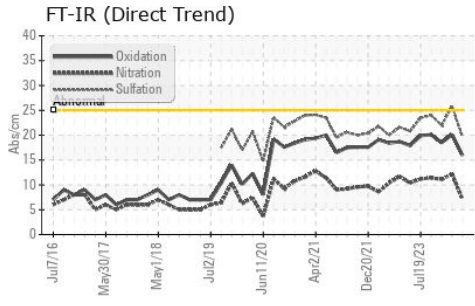
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>4</b>	6	11
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	12	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.6	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	12.2	11.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	25.8	22.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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>4</b>	9	7
Boron	ppm	ASTM D5185m	50	<b>34</b>	11	14
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	50	<b>48</b>	61	55
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>618</b>	676	598
Calcium	ppm	ASTM D5185m	1510	<b>1711</b>	1693	1748
Phosphorus	ppm	ASTM D5185m	780	<b>865</b>	880	778
Zinc	ppm	ASTM D5185m	870	<b>1030</b>	1142	1040
Sulfur	ppm	ASTM D5185m	2040	<b>3250</b>	3115	2569
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.9</b>	20.1	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>8.1</b>	5.5	5.4
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.4</b>	14.9	14.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117421  
**Lab Number** : 06224325  
**Unique Number** : 11102522  
**Test Package** : FLEET  
**Received** : 01 Jul 2024  
**Tested** : 02 Jul 2024  
**Diagnosed** : 02 Jul 2024 - Wes Davis

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
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 US 27529  
 Contact: Craig Johnson  
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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)