



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

Area  
**(MR7426)**  
Machine Id  
**AUTOCAR 3684C**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (6 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109586</b>	GFL0087501	GFL0087517
Sample Date		Client Info		<b>07 Feb 2024</b>	13 Dec 2023	08 Sep 2023
Machine Age	hrs	Client Info		<b>33559</b>	18322	17581
Oil Age	hrs	Client Info		<b>1283</b>	941	1171
Filter Age	hrs	Client Info		<b>1283</b>	941	1171
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>20</b>	10	17
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	2	4
Lead	ppm	ASTM D5185m	>30	<b>9</b>	3	19
Copper	ppm	ASTM D5185m	>35	<b>3</b>	2	3
Tin	ppm	ASTM D5185m	>4	<b>1</b>	0	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**

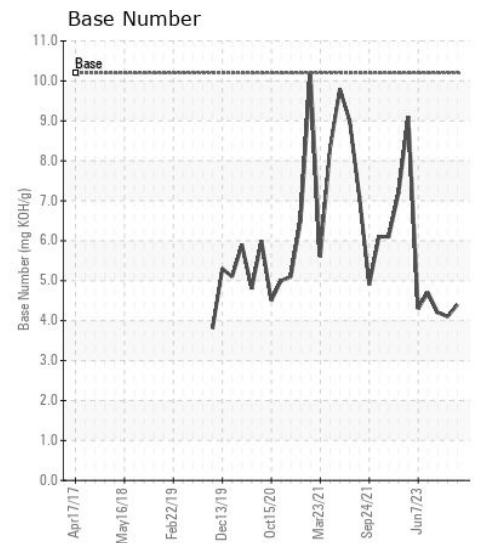
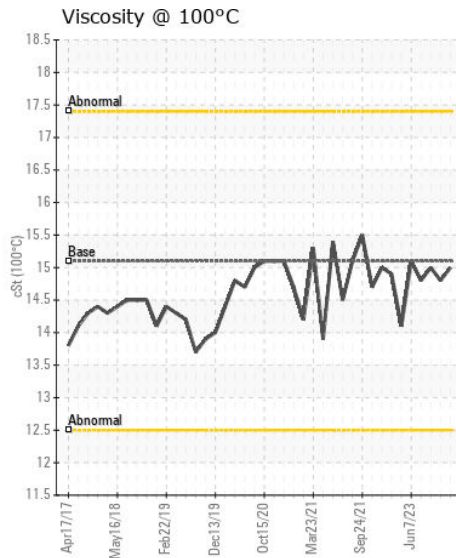
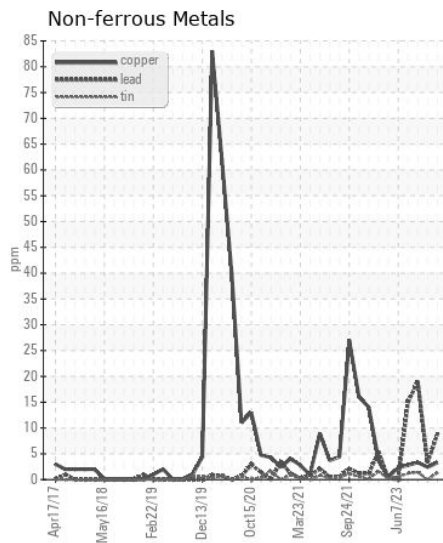
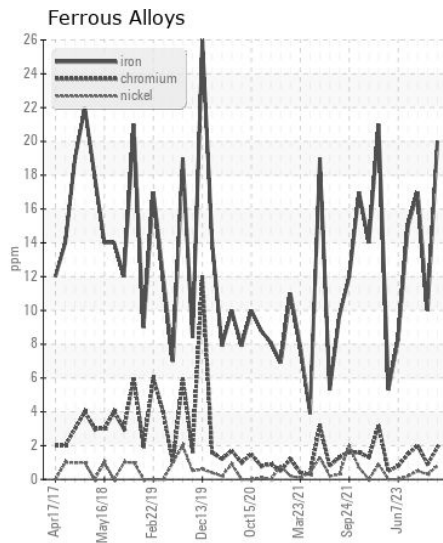
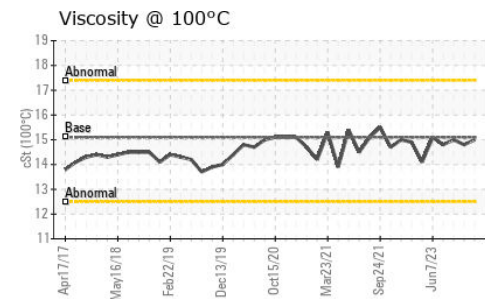
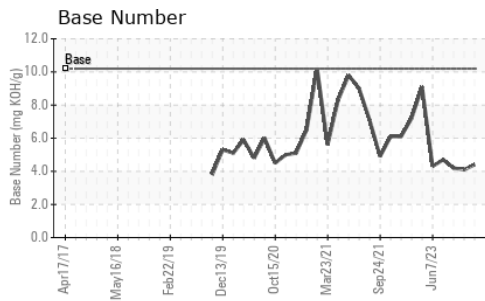
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.7</b>	11.8	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.3</b>	24.1	26.2
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>	10	11
Boron	ppm	ASTM D5185m	50	<b>9</b>	6	13
Barium	ppm	ASTM D5185m	5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>71</b>	62	69
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m	560	<b>686</b>	538	741
Calcium	ppm	ASTM D5185m	1510	<b>1861</b>	1706	2008
Phosphorus	ppm	ASTM D5185m	780	<b>886</b>	715	922
Zinc	ppm	ASTM D5185m	870	<b>1153</b>	1038	1215
Sulfur	ppm	ASTM D5185m	2040	<b>2664</b>	1897	3338
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.9</b>	20.6	22.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.4</b>	4.1	4.2
Visc @ 100°C	cSt	ASTM D445	15.1	<b>15.0</b>	14.8	15.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109586  
**Lab Number** : 06083344  
**Unique Number** : 10870789  
**Test Package** : FLEET

**Received** : 08 Feb 2024  
**Tested** : 08 Feb 2024  
**Diagnosed** : 08 Feb 2024 - Wes Davis

**GFL Environmental - 331 - Columbus**  
 180 Ada Moore Rd  
 Columbus, NC  
 US 28722  
 Contact: Matt Segars  
 matt.segars@gflenv.com  
 T: (800)207-6618  
 F: (252)617-2494

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)