



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

Area

**(YA163198)**

Machine Id

**10369C**

Component

**Natural Gas Engine**

Fluid

**PETRO CANADA DURON GEO LD 15W40 (30 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0123387</b>	GFL0082483	GFL0082401
Sample Date		Client Info		<b>20 Jun 2024</b>	14 Nov 2023	14 Jun 2023
Machine Age	hrs	Client Info		<b>79446</b>	79446	0
Oil Age	hrs	Client Info		<b>79446</b>	79446	0
Filter Age	hrs	Client Info		<b>79446</b>	79446	0
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ATTENTION</b>	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>36</b>	13	▲ 51
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	1	▲ 12
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	2
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>4</b>	2	8
Lead	ppm	ASTM D5185m	>30	<b>18</b>	2	16
Copper	ppm	ASTM D5185m	>35	<b>13</b>	15	6
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

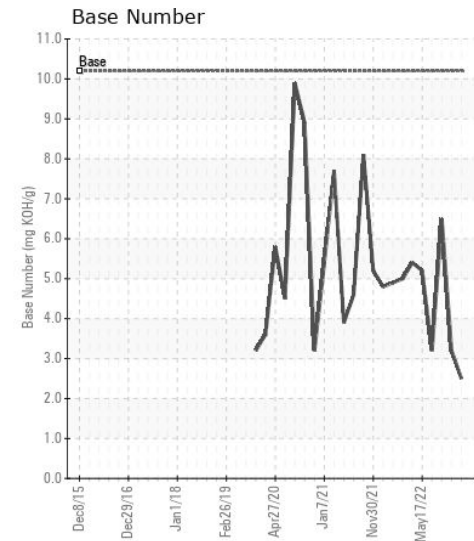
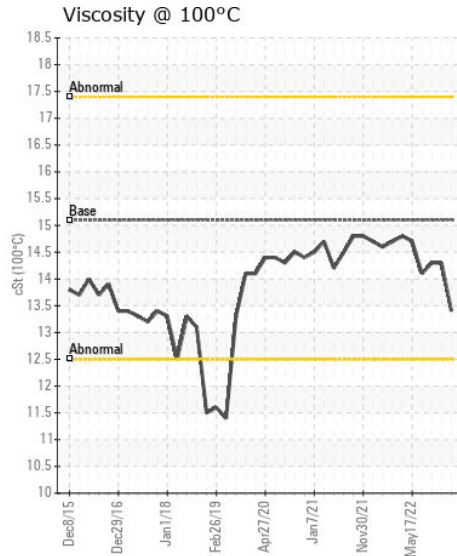
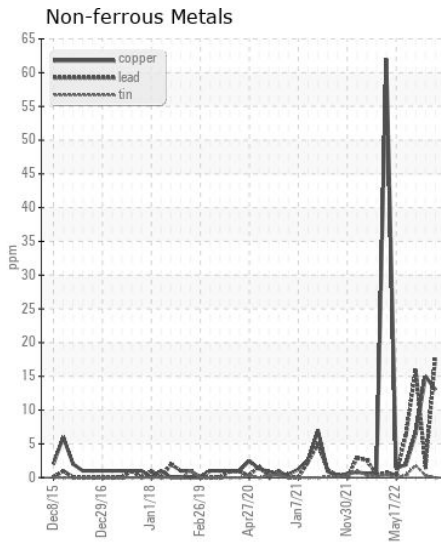
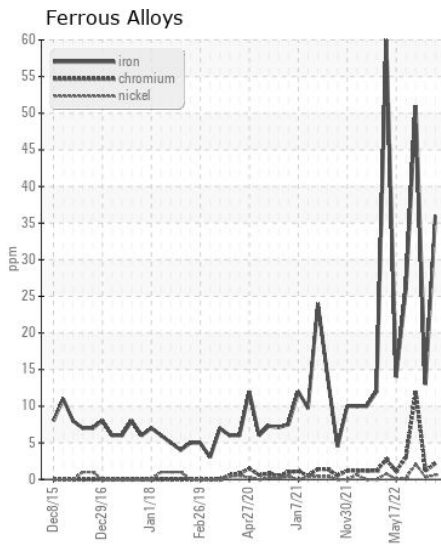
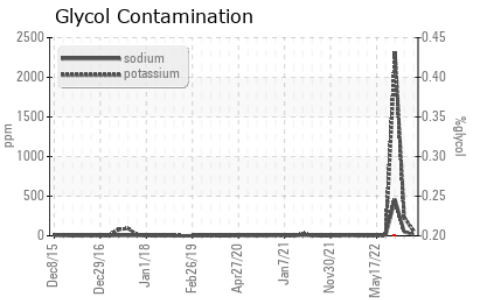
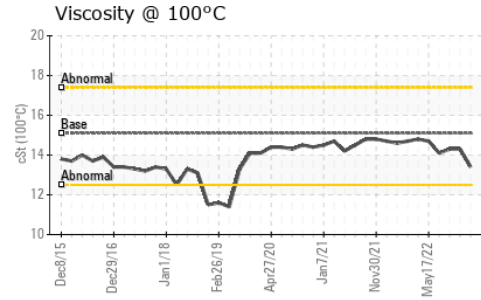
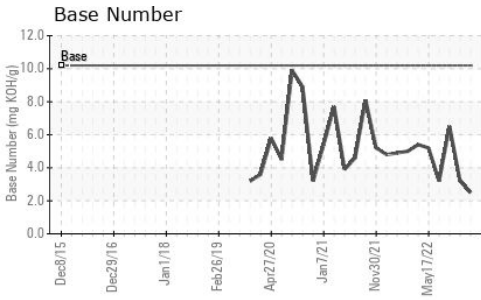
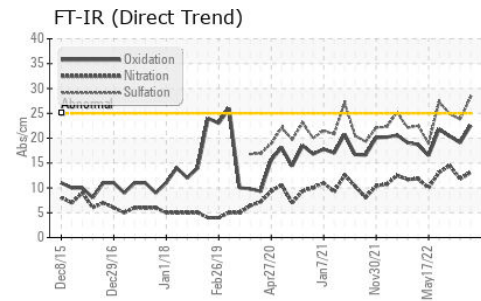
Sodium and/or potassium levels remain elevated. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>+100	<b>6</b>	2	16
Potassium	ppm	ASTM D5185m	>20	<b>62</b>	▲ 233	▲ 2309
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>---</b>	---	▲ 0.20
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	11.8	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>28.3</b>	23.8	24.9
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>18</b>	▲ 51	▲ 459
Boron	ppm	ASTM D5185m	50	<b>2</b>	<1	11
Barium	ppm	ASTM D5185m	5	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	50	<b>57</b>	55	72
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m	560	<b>588</b>	519	550
Calcium	ppm	ASTM D5185m	1510	<b>1823</b>	1481	1695
Phosphorus	ppm	ASTM D5185m	780	<b>756</b>	651	737
Zinc	ppm	ASTM D5185m	870	<b>1030</b>	912	1055
Sulfur	ppm	ASTM D5185m	2040	<b>3029</b>	2310	3153
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.5</b>	19.1	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>2.5</b>	3.2	6.5
Visc @ 100°C	cSt	ASTM D445	15.1	<b>13.4</b>	14.3	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123387  
**Lab Number** : 06223348  
**Unique Number** : 11101545  
**Test Package** : FLEET ( Additional Tests: Glycol )

**GFL Environmental - 007 - Brunswick**  
 2809 Galloway Road  
 Bolivia, NC  
 US 28422  
 Contact: DONALD CRAVEN  
 dcraven@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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