



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

Area  
**(YA144622)**

Machine Id  
**10873C**

Component  
**Natural Gas Engine**

Fluid  
**PETRO CANADA DURON GEO LD 15W40 (46 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0089999</b>	GFL0099795	GFL0074443
Sample Date		Client Info		<b>03 Feb 2024</b>	20 Nov 2023	29 Sep 2023
Machine Age	hrs	Client Info		<b>15723</b>	15180	9201
Oil Age	hrs	Client Info		<b>600</b>	9201	9201
Filter Age	hrs	Client Info		<b>600</b>	245	245
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>14</b>	11	17
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<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>2</b>	2	2
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>35	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</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**

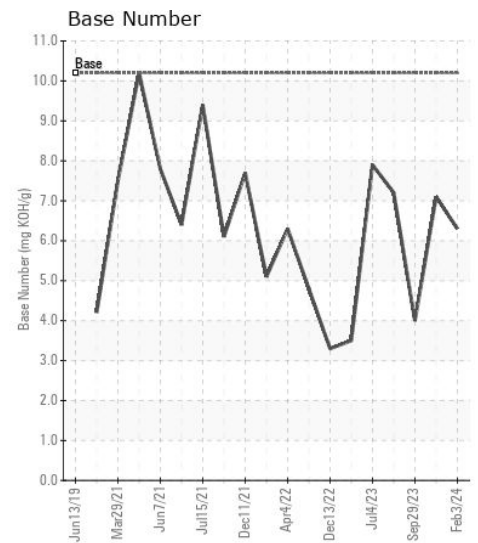
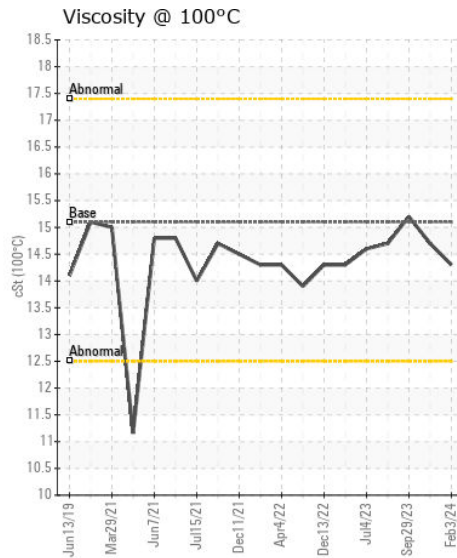
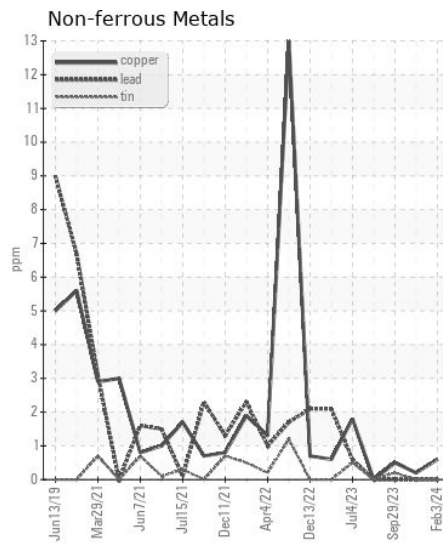
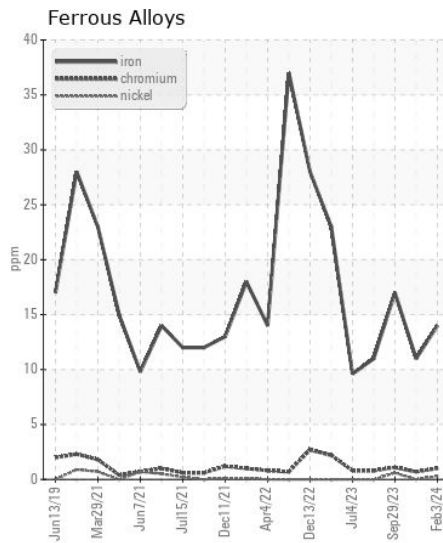
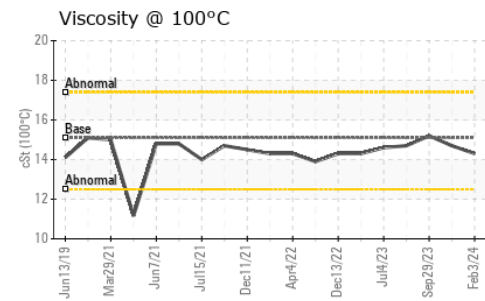
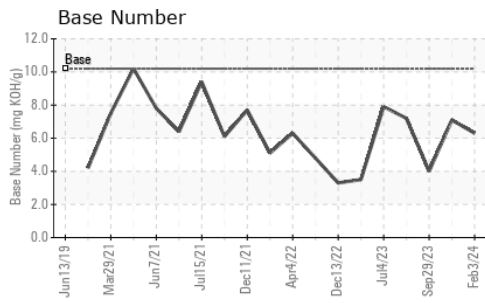
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	9	6
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	16
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	8.5	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	19.1	22.9
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>4</b>	6	7
Boron	ppm	ASTM D5185m	50	<b>9</b>	24	2
Barium	ppm	ASTM D5185m	5	<b>12</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>45</b>	54	55
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>463</b>	635	587
Calcium	ppm	ASTM D5185m	1510	<b>1285</b>	1722	1527
Phosphorus	ppm	ASTM D5185m	780	<b>650</b>	867	695
Zinc	ppm	ASTM D5185m	870	<b>809</b>	1057	1009
Sulfur	ppm	ASTM D5185m	2040	<b>2256</b>	2621	2331
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.5</b>	16.3	19.7
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>6.3</b>	7.1	4.0
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.3</b>	14.7	15.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0089999  
**Lab Number** : 06088566  
**Unique Number** : 10876011  
**Test Package** : FLEET

**Received** : 14 Feb 2024  
**Tested** : 15 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Wes Davis

**GFL Environmental - 018 - Fayetteville**  
 4621 Marracco Drive  
 Hope Mills, NC  
 US 28348

Contact: Robert Carter  
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 T: (910)596-1170

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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