



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



Machine Id  
**933050**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0106114</b>	GFL0078664	GFL0082090
Sample Date		Client Info		<b>21 Feb 2024</b>	18 Sep 2023	12 Jul 2023
Machine Age	hrs	Client Info		<b>2237</b>	1120	564
Oil Age	hrs	Client Info		<b>600</b>	0	564
Filter Age	hrs	Client Info		<b>600</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>11</b>	19	57
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	3
Titanium	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	11	17
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>150	<b>2</b>	4	19
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	2
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**

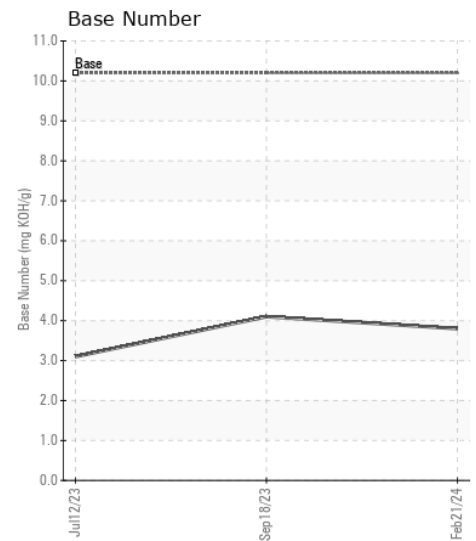
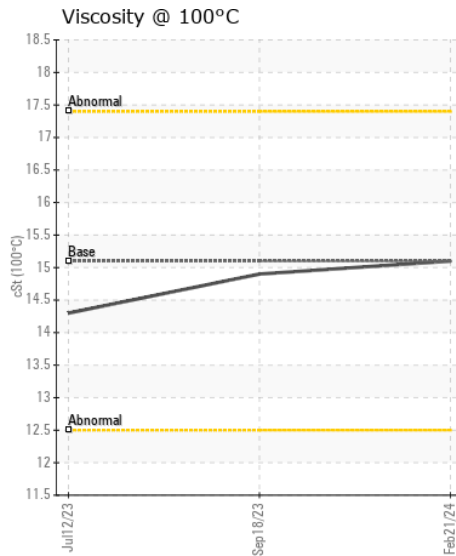
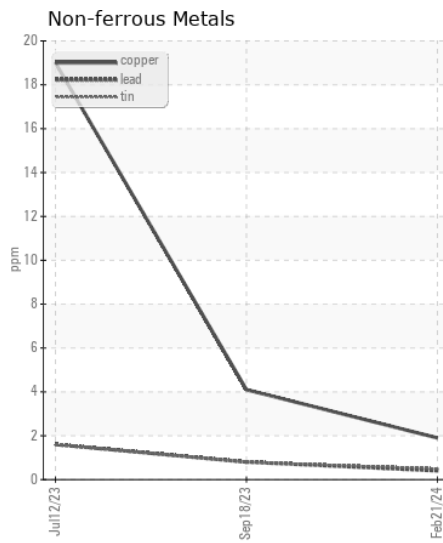
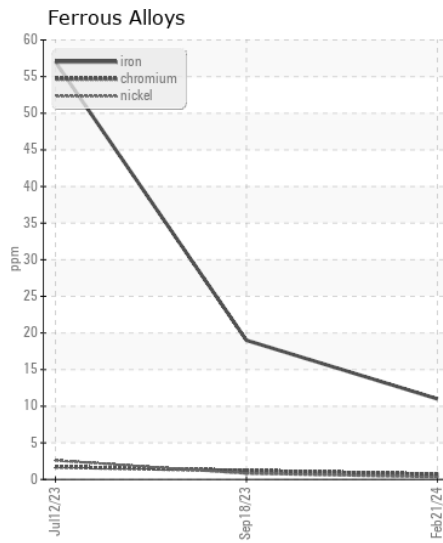
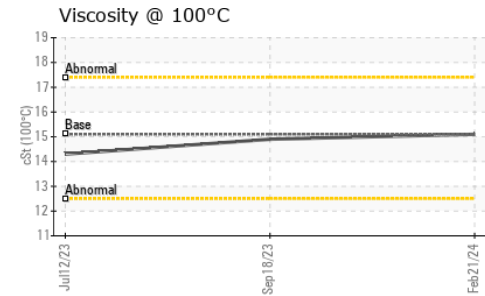
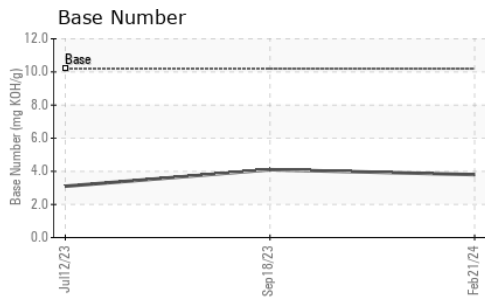
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	12	40
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	23	42
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.5</b>	11.2	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	21.8	24.0
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>9</b>	8	2
Boron	ppm	ASTM D5185m	50	<b>8</b>	4	14
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	49	54
Manganese	ppm	ASTM D5185m	0	<b>1</b>	3	17
Magnesium	ppm	ASTM D5185m	560	<b>614</b>	522	729
Calcium	ppm	ASTM D5185m	1510	<b>1780</b>	1470	1010
Phosphorus	ppm	ASTM D5185m	780	<b>749</b>	640	687
Zinc	ppm	ASTM D5185m	870	<b>1030</b>	904	903
Sulfur	ppm	ASTM D5185m	2040	<b>2534</b>	2472	2325
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.7</b>	18.7	23.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>3.8</b>	4.1	▲ 3.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>15.1</b>	14.9	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0106114  
**Lab Number** : 06103515  
**Unique Number** : 10901745  
**Test Package** : FLEET

**Received** : 28 Feb 2024  
**Tested** : 01 Mar 2024  
**Diagnosed** : 01 Mar 2024 - Wes Davis

**GFL Environmental - 152 - Jacksonville**  
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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)