



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

Machine Id  
**733020**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0109788</b>	GFL0103282	GFL0103279
Sample Date		Client Info		<b>26 Feb 2024</b>	24 Jan 2024	02 Jan 2024
Machine Age	hrs	Client Info		<b>1390</b>	1207	1095
Oil Age	hrs	Client Info		<b>0</b>	1207	0
Filter Age	hrs	Client Info		<b>0</b>	1207	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>13</b>	56	9
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	3	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	54	1
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	3	2
Copper	ppm	ASTM D5185m	>35	<b>2</b>	16	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	1
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**

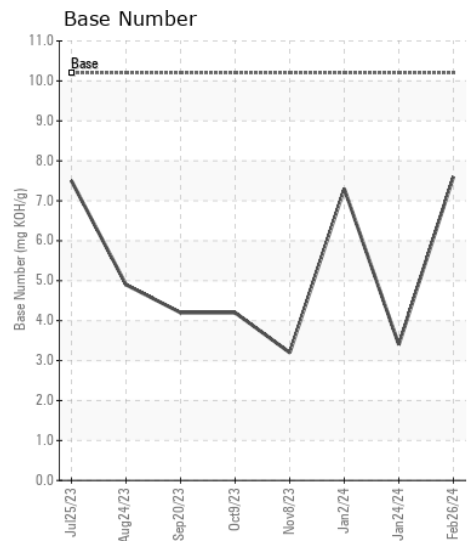
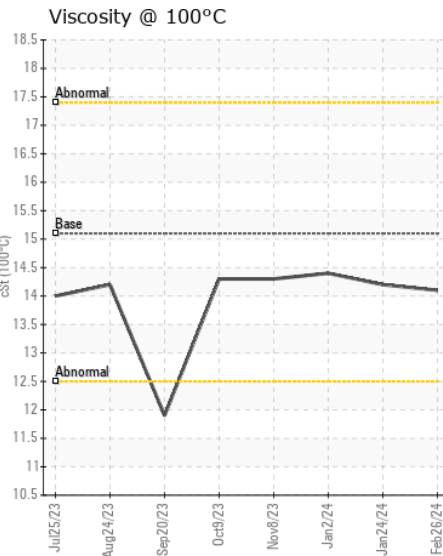
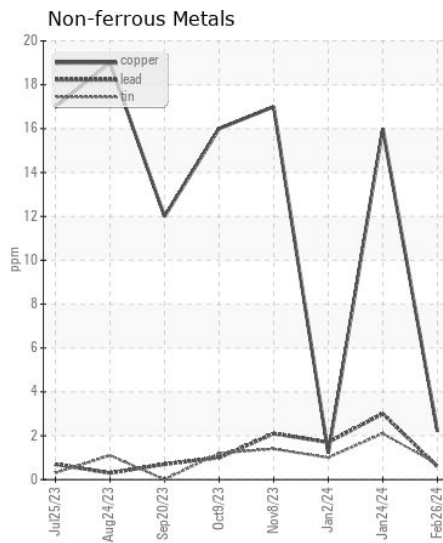
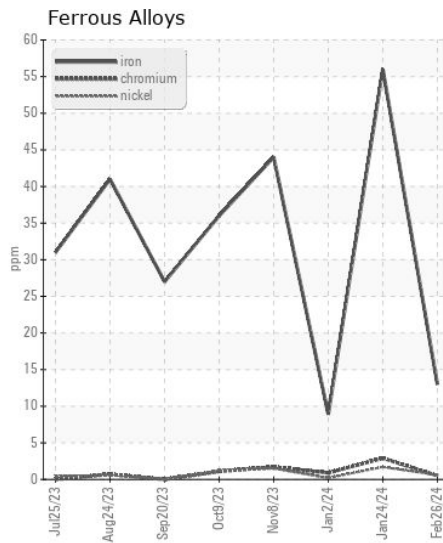
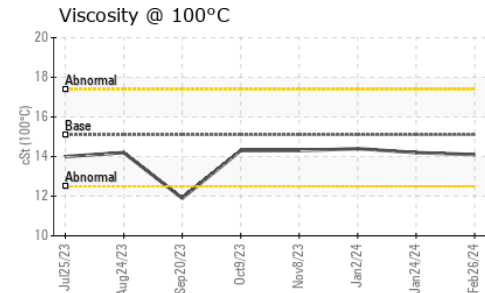
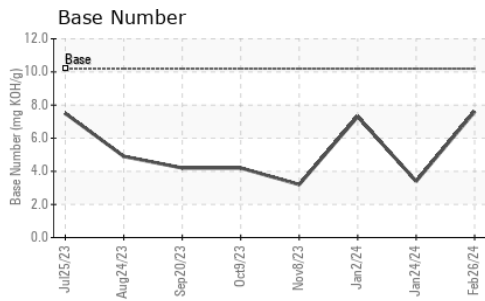
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>7</b>	22	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	181	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	12.5	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	26.5	19.1
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>2</b>	8	6
Boron	ppm	ASTM D5185m	50	<b>30</b>	12	22
Barium	ppm	ASTM D5185m	5	<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	62	54
Manganese	ppm	ASTM D5185m	0	<b>2</b>	12	<1
Magnesium	ppm	ASTM D5185m	560	<b>594</b>	808	558
Calcium	ppm	ASTM D5185m	1510	<b>1624</b>	1391	1570
Phosphorus	ppm	ASTM D5185m	780	<b>779</b>	830	831
Zinc	ppm	ASTM D5185m	870	<b>1051</b>	1033	981
Sulfur	ppm	ASTM D5185m	2040	<b>2800</b>	2434	2507
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.6</b>	23.4	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>7.6</b>	▲ 3.4	7.3
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.1</b>	14.2	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0109788  
**Lab Number** : 06102837  
**Unique Number** : 10901067  
**Test Package** : FLEET

**Received** : 28 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Wes Davis

**GFL Environmental - 836 - Kansas City Hauling**  
 7801 East Truman Road  
 Kansas City, MO  
 US 64126  
 Contact: Loyce Stewart  
 loyce.stewart@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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F: