



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

Machine Id  
**2591C PETERBILT 567**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (42 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103180</b>	GFL0103201	GFL0089352
Sample Date		Client Info		<b>28 May 2024</b>	15 Feb 2024	11 Aug 2023
Machine Age	hrs	Client Info		<b>0</b>	4402	3055
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>14</b>	22	▲ 71
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	▲ 9
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	3	▲ 18
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	<1	3
Copper	ppm	ASTM D5185m	>35	<b>0</b>	2	0
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
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**

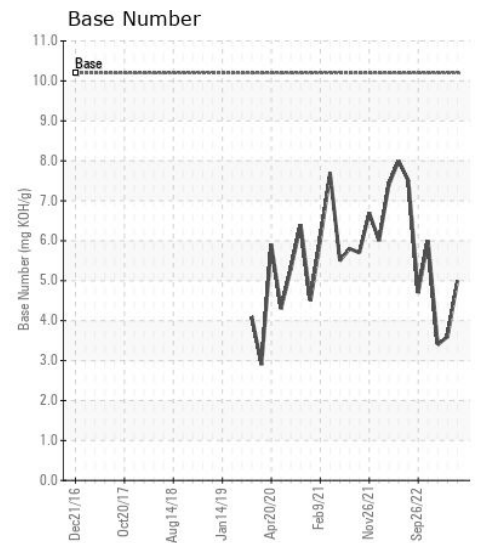
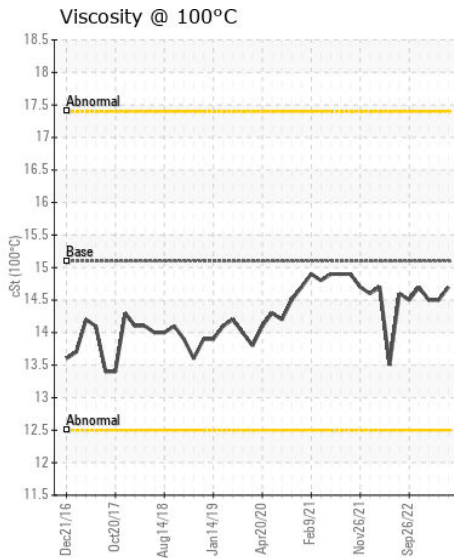
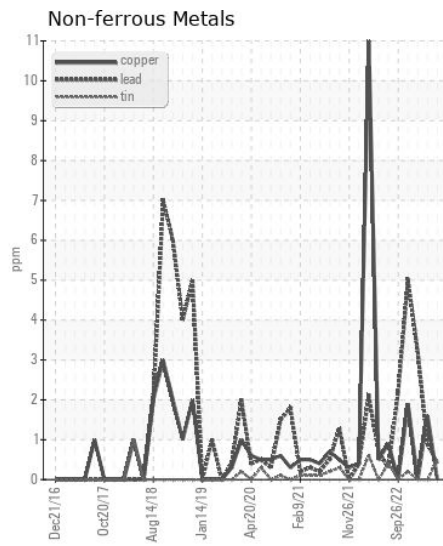
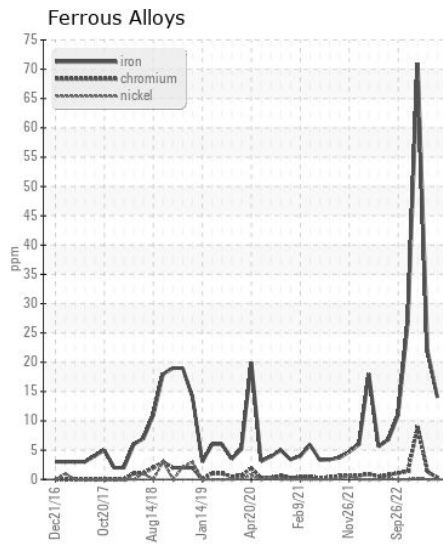
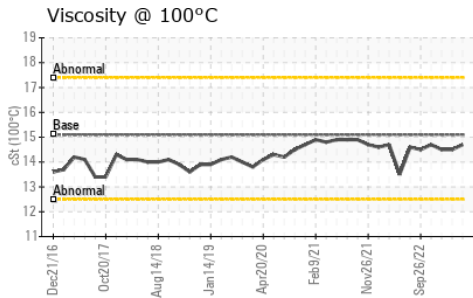
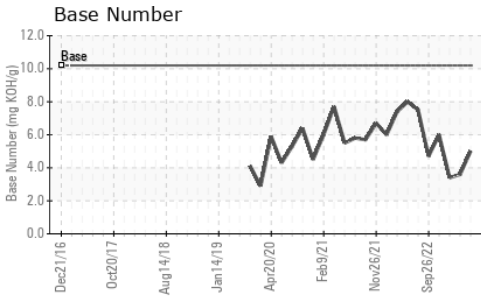
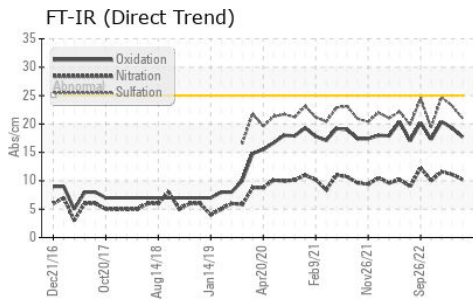
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>6</b>	10	60
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	11.1	11.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	23.2	24.7
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>6</b>	6	12
Boron	ppm	ASTM D5185m	50	<b>17</b>	12	6
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>48</b>	50	53
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m	560	<b>528</b>	572	612
Calcium	ppm	ASTM D5185m	1510	<b>1512</b>	1605	1820
Phosphorus	ppm	ASTM D5185m	780	<b>686</b>	715	749
Zinc	ppm	ASTM D5185m	870	<b>904</b>	999	1079
Sulfur	ppm	ASTM D5185m	2040	<b>2669</b>	2582	3399
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.7</b>	19.3	20.4
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>5.0</b>	3.6	3.4
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.7</b>	14.5	14.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103180  
**Lab Number** : 06193726  
**Unique Number** : 11050478  
**Test Package** : FLEET

**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Wes Davis

**GFL Environmental - 001 - Raleigh(CNG)**

3741 Conquest Drive  
 Garner, NC  
 US 27529  
 Contact: Ronald Gregory  
 rgregory@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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