



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

Machine Id  
**2631C PETERBILT 567**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON GEO LD 15W40 (48 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0117460</b>	GFL0089342	GFL0056534
Sample Date		Client Info		<b>20 Apr 2024</b>	20 Jul 2023	21 Sep 2022
Machine Age	hrs	Client Info		<b>7296</b>	6098	3855
Oil Age	hrs	Client Info		<b>0</b>	0	207
Filter Age	hrs	Client Info		<b>0</b>	0	207
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>19</b>	23	10
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	4	3
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>6</b>	3	3
Lead	ppm	ASTM D5185m	>30	<b>5</b>	▲ 45	<1
Copper	ppm	ASTM D5185m	>35	<b>6</b>	3	<1
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

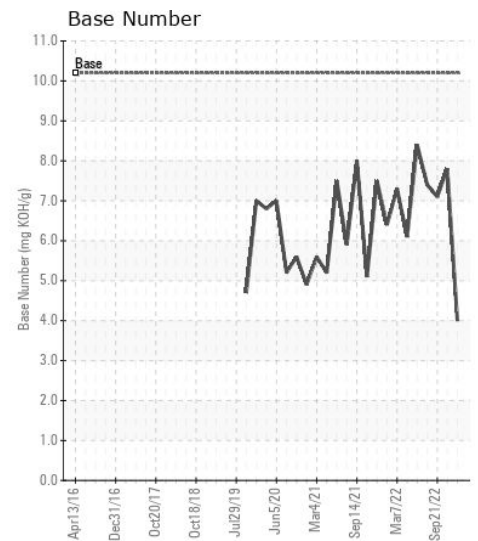
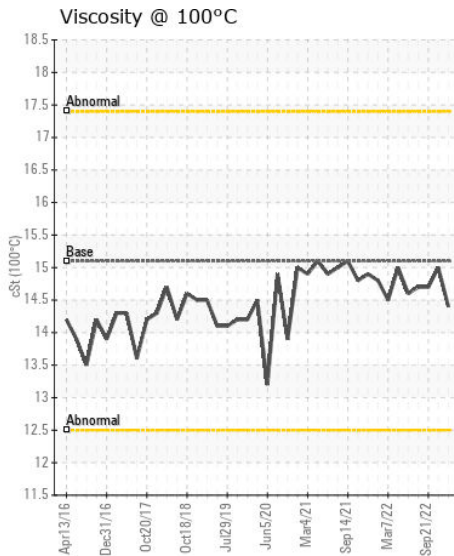
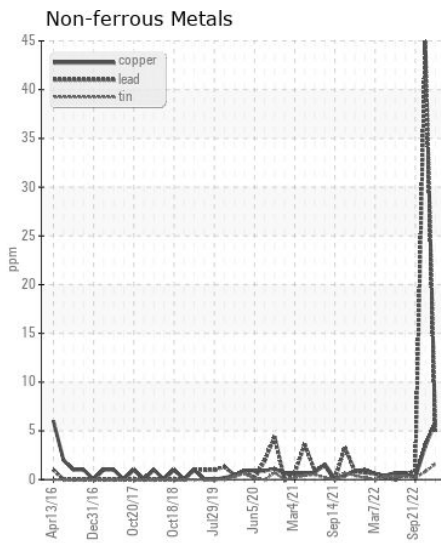
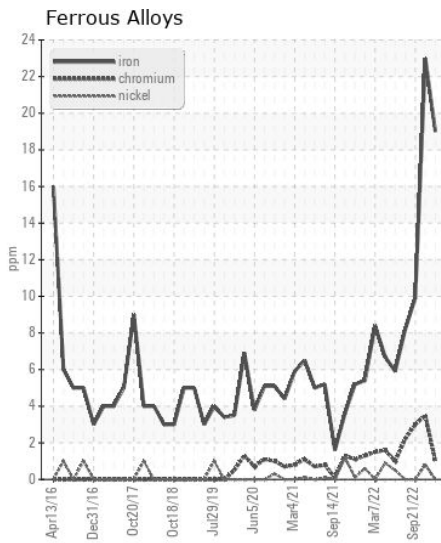
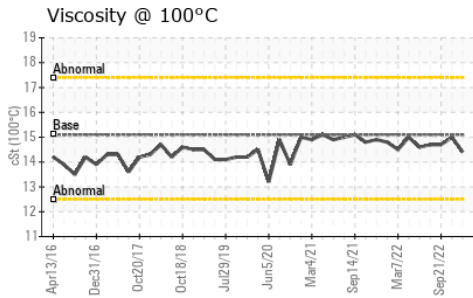
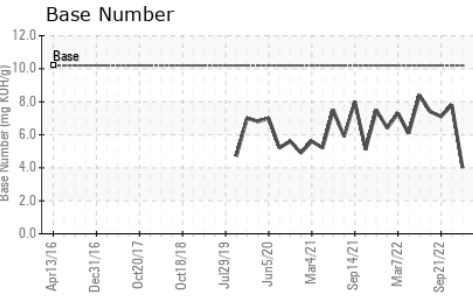
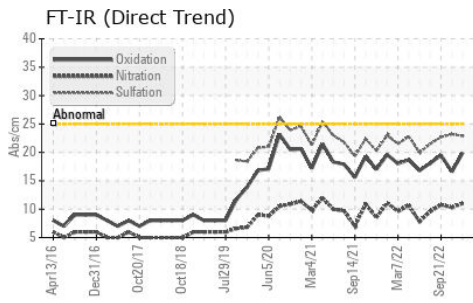
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>54</b>	12	17
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	0	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	10.3	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	23.2	22.7
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>5</b>	14	4
Boron	ppm	ASTM D5185m	50	<b>10</b>	17	20
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	50	<b>53</b>	62	50
Manganese	ppm	ASTM D5185m	0	<b>3</b>	<1	<1
Magnesium	ppm	ASTM D5185m	560	<b>593</b>	708	531
Calcium	ppm	ASTM D5185m	1510	<b>1739</b>	2029	1561
Phosphorus	ppm	ASTM D5185m	780	<b>720</b>	913	717
Zinc	ppm	ASTM D5185m	870	<b>1018</b>	1157	926
Sulfur	ppm	ASTM D5185m	2040	<b>2691</b>	3205	2653
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.9</b>	16.6	19.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	<b>4.0</b>	7.8	7.1
Visc @ 100°C	cSt	ASTM D445	15.1	<b>14.4</b>	15.0	14.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0117460  
**Lab Number** : 06158947  
**Unique Number** : 10994370  
**Test Package** : FLEET

**Received** : 24 Apr 2024  
**Tested** : 25 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Wes Davis

**GFL Environmental - 001 - Raleigh(CNG)**  
 3741 Conquest Drive  
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 US 27529

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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)