



Machine Id  
**PETERBILT 514068**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL DELVAC ELITE 15W40 (--- GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0111263</b>	---	---
Sample Date		Client Info		<b>05 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>581</b>	---	---
Oil Age	hrs	Client Info		<b>581</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>57</b>	---	---
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>32</b>	---	---
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>85	<b>25</b>	---	---
Tin	ppm	ASTM D5185m	>4	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

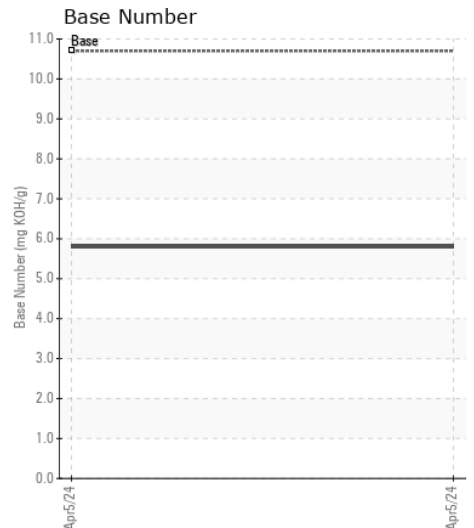
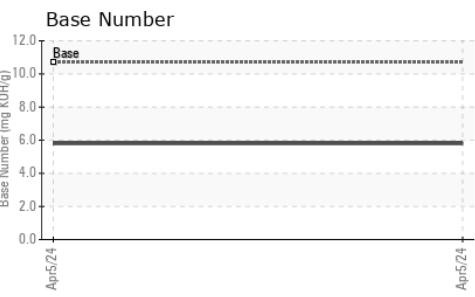
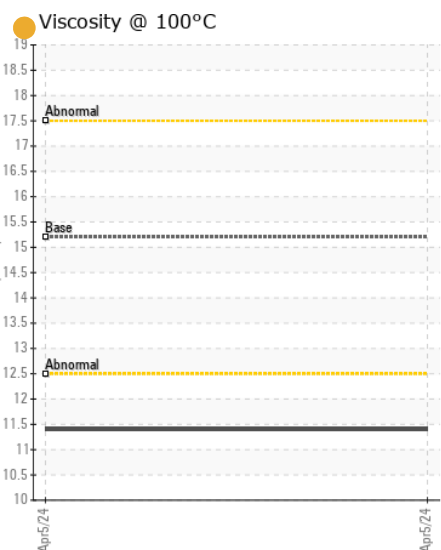
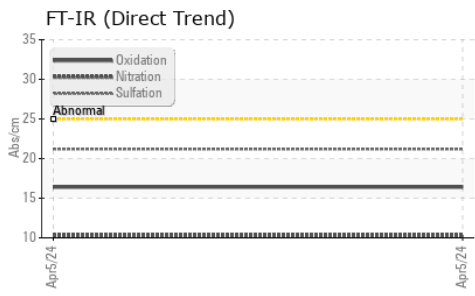
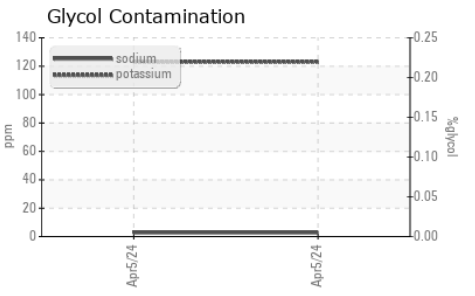
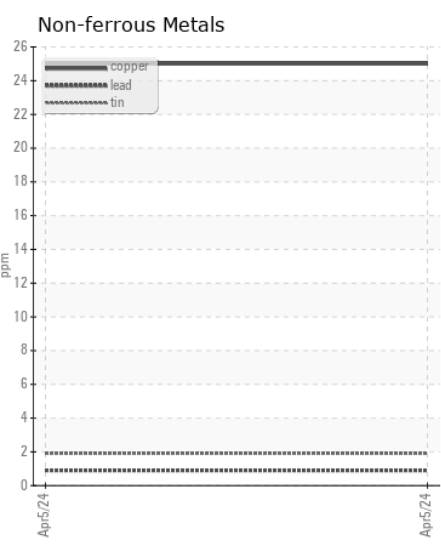
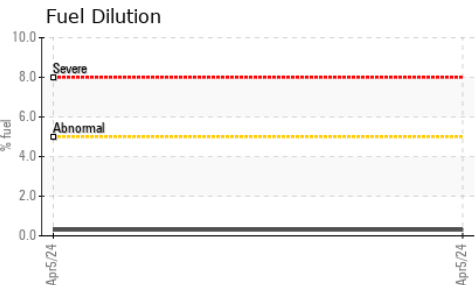
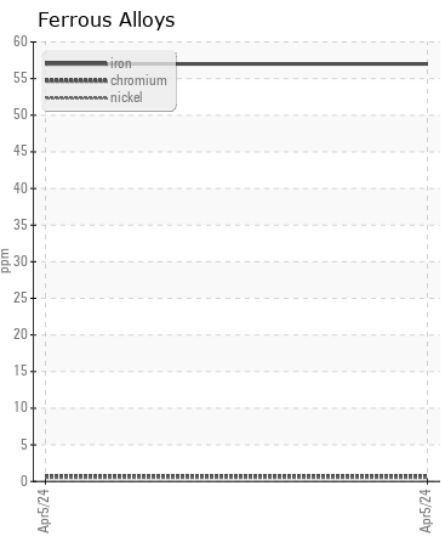
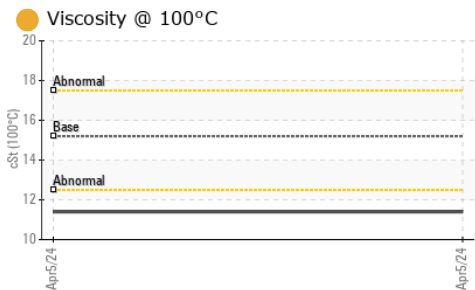
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

Silicon	ppm	ASTM D5185m	>30	<b>17</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>123</b>	---	---
Fuel	%	ASTM D3524	>5	<b>0.3</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		<b>3</b>	---	---
Boron	ppm	ASTM D5185m		<b>45</b>	---	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>12</b>	---	---
Manganese	ppm	ASTM D5185m		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>748</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1373</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>725</b>	---	---
Zinc	ppm	ASTM D5185m		<b>845</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3254</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.7	<b>5.8</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.2	<b>11.4</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0111263 **Received** : 15 Apr 2024  
**Lab Number** : 06148333 **Tested** : 18 Apr 2024  
**Unique Number** : 10978411 **Diagnosed** : 18 Apr 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**GFL Environmental - 981 - Port Arthur Hauling**  
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 F:

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)