



# OIL ANALYSIS REPORT

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

Machine Id  
**PETERBILT 495144**  
Component  
**1 Diesel Engine**  
Fluid  
**CITGO CITGUARD 600 15W40 (48 QTS)**

## 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>RPL0004298</b>	---	---
Sample Date		Client Info		<b>19 Jul 2023</b>	---	---
Machine Age	mls	Client Info		<b>268811</b>	---	---
Oil Age	mls	Client Info		<b>18904</b>	---	---
Filter Age	mls	Client Info		<b>18904</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>165	<b>61</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m	>2	<b>2</b>	---	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	---	---
Lead	ppm	ASTM D5185m	>150	<b>8</b>	---	---
Copper	ppm	ASTM D5185m	>90	<b>3</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

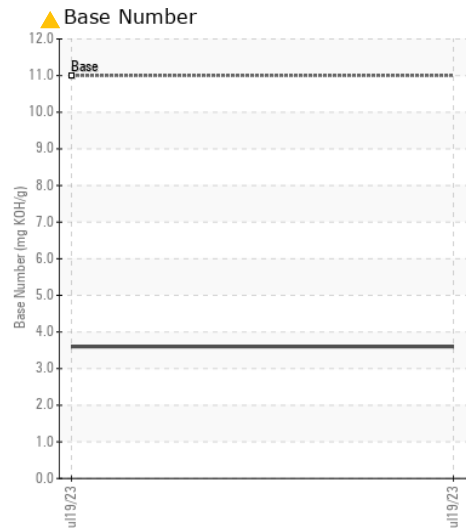
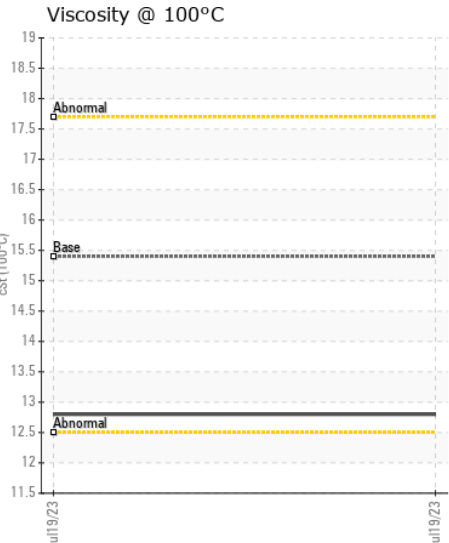
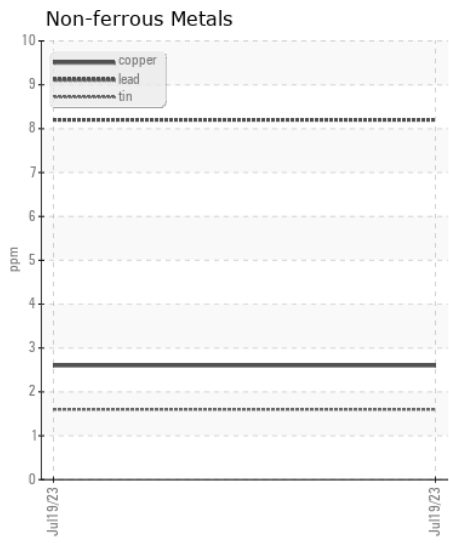
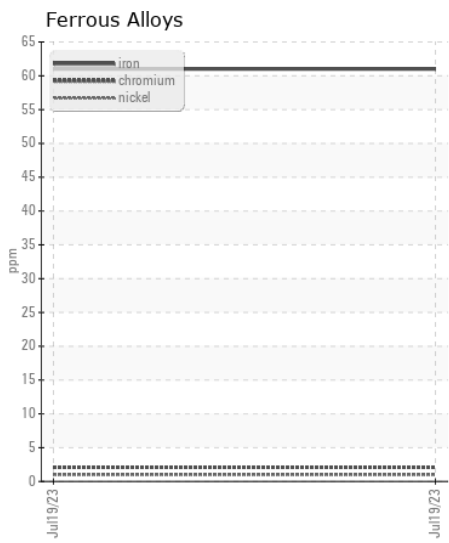
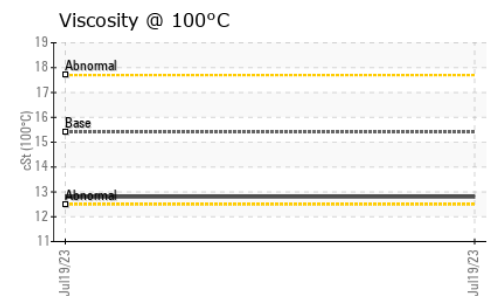
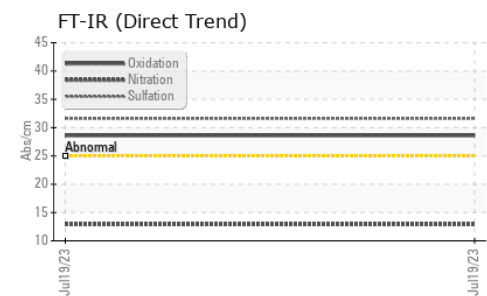
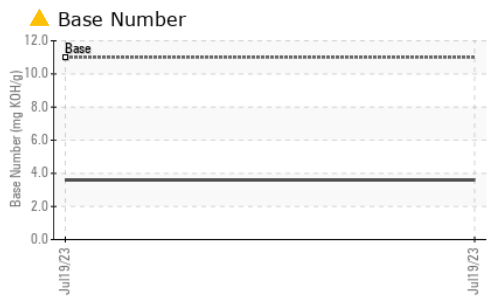
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>10</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>26</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>7.5	<b>0.9</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.6</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 BN level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m	13	<b>11</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>10</b>	---	---
Molybdenum	ppm	ASTM D5185m	57	<b>84</b>	---	---
Manganese	ppm	ASTM D5185m		<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m	825	<b>362</b>	---	---
Calcium	ppm	ASTM D5185m	1100	<b>1690</b>	---	---
Phosphorus	ppm	ASTM D5185m	933	<b>868</b>	---	---
Zinc	ppm	ASTM D5185m	1089	<b>1199</b>	---	---
Sulfur	ppm	ASTM D5185m	2769	<b>3229</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>3.6</b>	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.8</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0004298  
**Lab Number** : 05988543  
**Unique Number** : 10711205  
**Test Package** : FLEET

**RTL PACLEASE - 7025 - Tampa**  
 8109 East Adamo Drive  
 Tampa, FL  
 US 33619  
 Contact: TECHNICIAN ACCOUNT  
 catherine.anastasio@wearcheck.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: