



PacLease

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**PETERBILT 497535**  
Component  
**Diesel Engine**  
Fluid  
**CITGO CITGUARD 600 15W40 (48 QTS)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

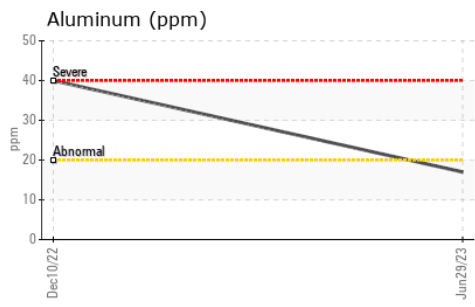
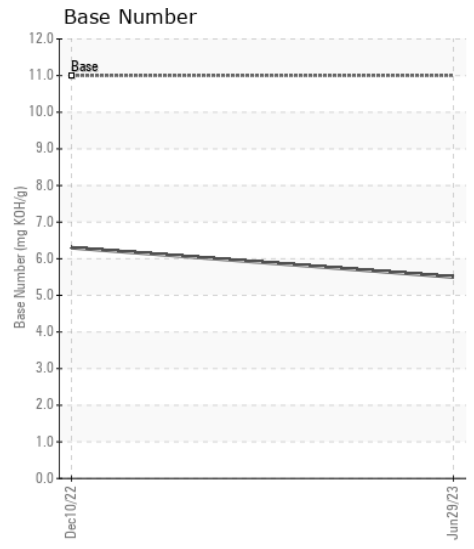
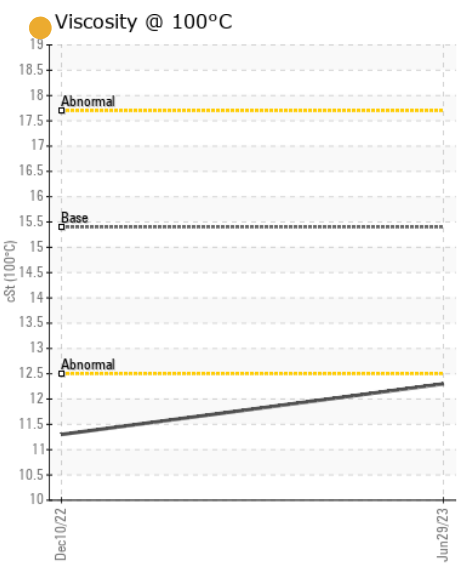
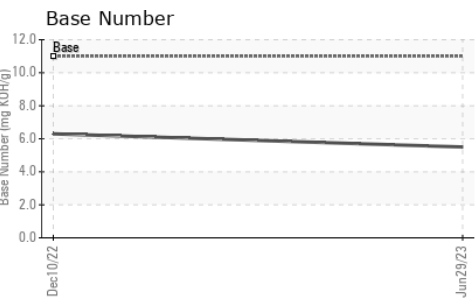
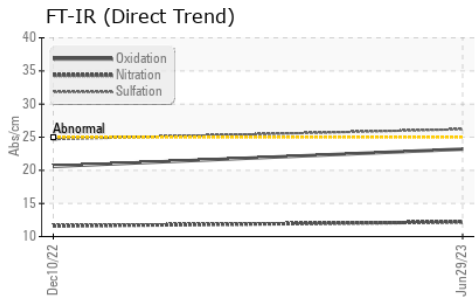
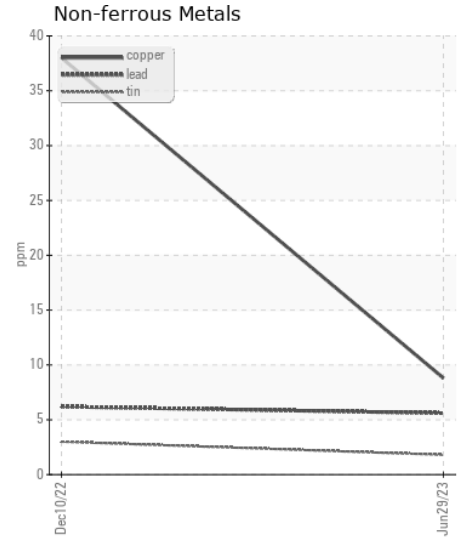
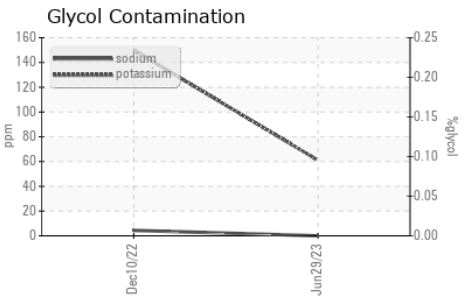
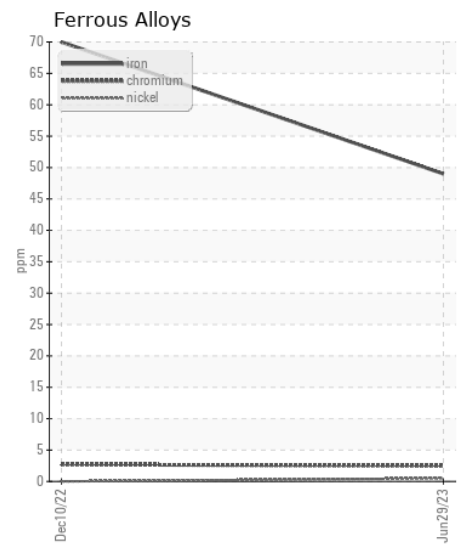
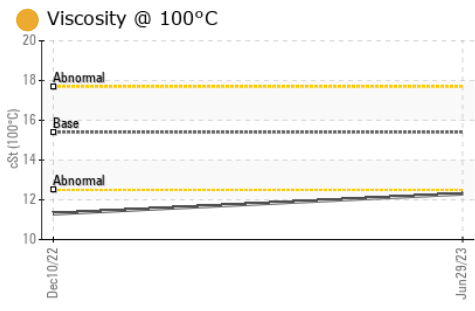
## CONTAMINATION

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. No other contaminants were detected in the oil.

## 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0004364</b>	RPL0004391	---
Sample Date		Client Info		<b>29 Jun 2023</b>	10 Dec 2022	---
Machine Age	mls	Client Info		<b>44064</b>	17311	---
Oil Age	mls	Client Info		<b>26753</b>	17311	---
Filter Age	mls	Client Info		<b>26753</b>	17311	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	ATTENTION	---
Iron	ppm	ASTM D5185m	>90	<b>49</b>	70	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	2	---
Aluminum	ppm	ASTM D5185m	>20	<b>17</b>	40	---
Lead	ppm	ASTM D5185m	>40	<b>6</b>	6	---
Copper	ppm	ASTM D5185m	>330	<b>9</b>	38	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	3	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>25	<b>16</b>	46	---
Potassium	ppm	ASTM D5185m	>20	<b>61</b>	150	---
Fuel	%	ASTM D3524	>3.0	<b>&lt;1.0</b>	1.4	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>6	<b>0.5</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	11.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.2</b>	24.7	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185m		<b>0</b>	4	---
Boron	ppm	ASTM D5185m	13	<b>2</b>	27	---
Barium	ppm	ASTM D5185m	0	<b>10</b>	6	---
Molybdenum	ppm	ASTM D5185m	57	<b>58</b>	21	---
Manganese	ppm	ASTM D5185m		<b>2</b>	6	---
Magnesium	ppm	ASTM D5185m	825	<b>431</b>	669	---
Calcium	ppm	ASTM D5185m	1100	<b>1668</b>	1453	---
Phosphorus	ppm	ASTM D5185m	933	<b>878</b>	729	---
Zinc	ppm	ASTM D5185m	1089	<b>1207</b>	906	---
Sulfur	ppm	ASTM D5185m	2769	<b>3294</b>	3287	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.2</b>	20.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>5.5</b>	6.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.3</b>	11.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0004364 **Received** : 24 Oct 2023  
**Lab Number** : 05988541 **Tested** : 28 Oct 2023  
**Unique Number** : 10711203 **Diagnosed** : 28 Oct 2023 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

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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)