



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area  
**[PAC7025]**  
 Machine Id  
**PETERBILT 496386**  
 Component  
**Diesel Engine**  
 Fluid  
**CITGO CITGUARD 600 15W40 (48 Shots)**

## RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

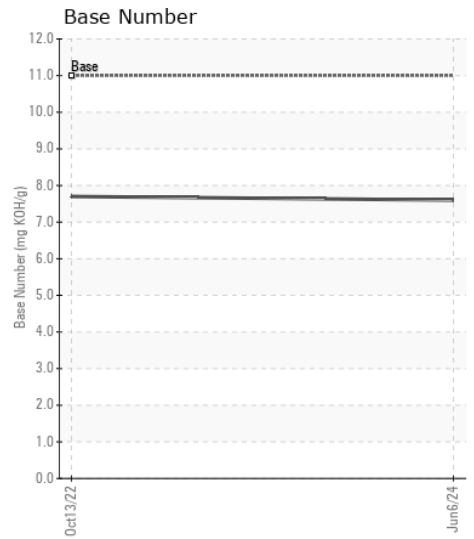
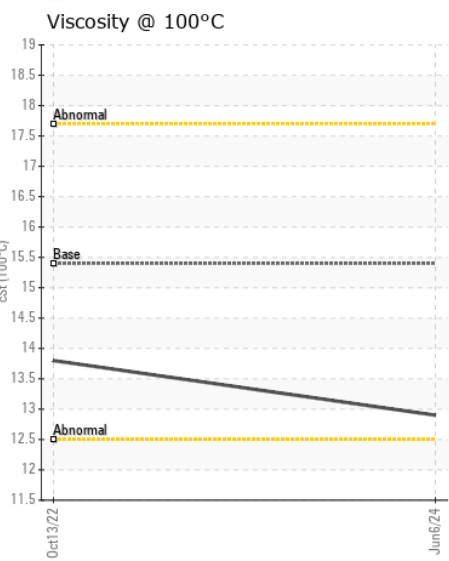
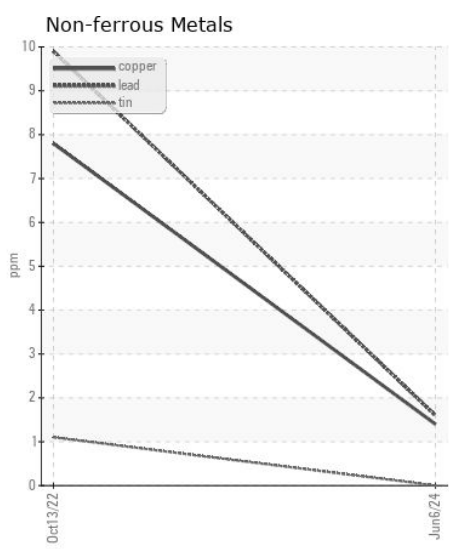
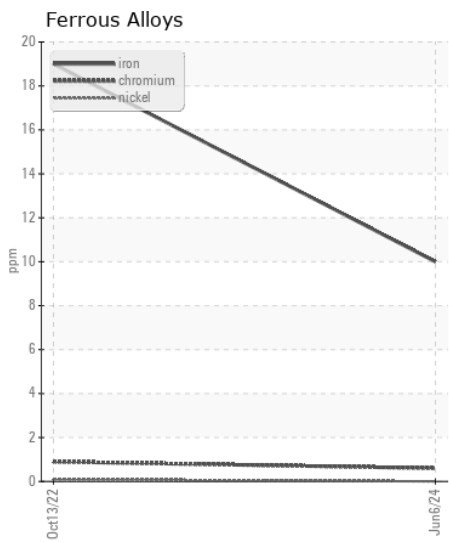
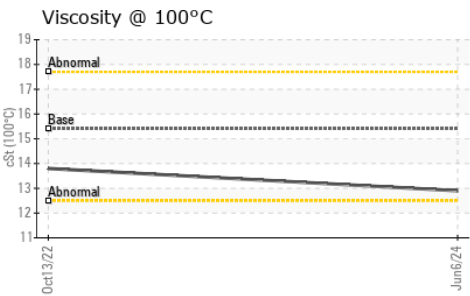
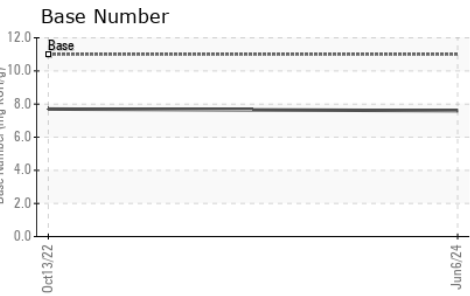
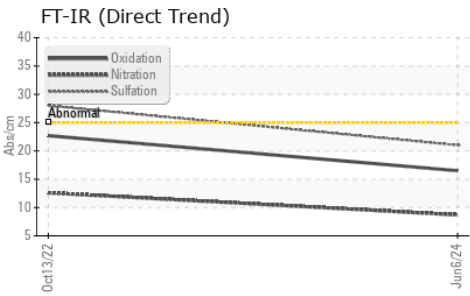
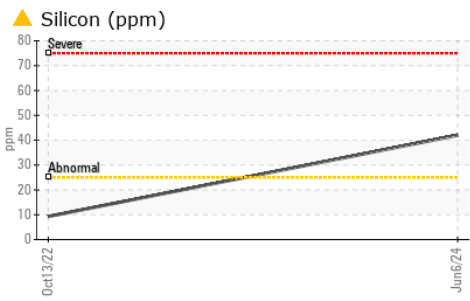
## CONTAMINATION

Elemental level of silicon (Si) above normal.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0004220</b>	RPL0004386	---
Sample Date		Client Info		<b>06 Jun 2024</b>	13 Oct 2022	---
Machine Age	mls	Client Info		<b>190141</b>	130575	---
Oil Age	mls	Client Info		<b>17261</b>	19533	---
Filter Age	mls	Client Info		<b>17261</b>	19533	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Not Changd</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---
Iron	ppm	ASTM D5185m	>90	<b>10</b>	19	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	12	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	6	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	10	---
Copper	ppm	ASTM D5185m	>330	<b>1</b>	8	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</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>▲ 42</b>	9	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	8	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>6	<b>0.3</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	12.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	28	---
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>&lt;1</b>	5	---
Boron	ppm	ASTM D5185m	13	<b>10</b>	88	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	57	<b>69</b>	109	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	825	<b>480</b>	630	---
Calcium	ppm	ASTM D5185m	1100	<b>1989</b>	1579	---
Phosphorus	ppm	ASTM D5185m	933	<b>1110</b>	709	---
Zinc	ppm	ASTM D5185m	1089	<b>1446</b>	930	---
Sulfur	ppm	ASTM D5185m	2769	<b>4279</b>	2813	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.5</b>	22.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>7.6</b>	7.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	13.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0004220 **Received** : 28 Jun 2024  
**Lab Number** : 06223374 **Tested** : 01 Jul 2024  
**Unique Number** : 11101571 **Diagnosed** : 01 Jul 2024 - Don Baldrige  
**Test Package** : FLEET

**RTL PACLEASE - 7025 - Tampa**  
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 REIDM@RushEnterprises.com  
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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)