



WEAR **NORMAL**

CONTAMINATION **ABNORMAL**

FLUID CONDITION **NORMAL**

# OIL ANALYSIS REPORT

Area

[PAC7025]

Machine Id

PETERBILT 496583

Component

Diesel Engine

Fluid

CITGO CITGUARD 600 15W40 (48 QTS)

## RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0004225	---	---
Sample Date		Client Info		13 Jun 2024	---	---
Machine Age	mls	Client Info		152363	---	---
Oil Age	mls	Client Info		72380	---	---
Filter Age	mls	Client Info		72380	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	64	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	19	---	---
Lead	ppm	ASTM D5185m	>40	2	---	---
Copper	ppm	ASTM D5185m	>330	7	---	---
Tin	ppm	ASTM D5185m	>15	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

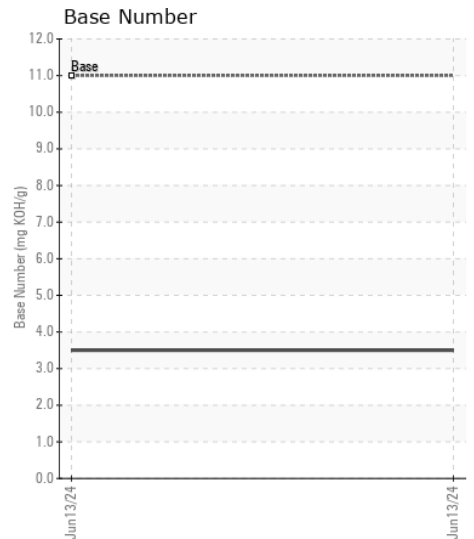
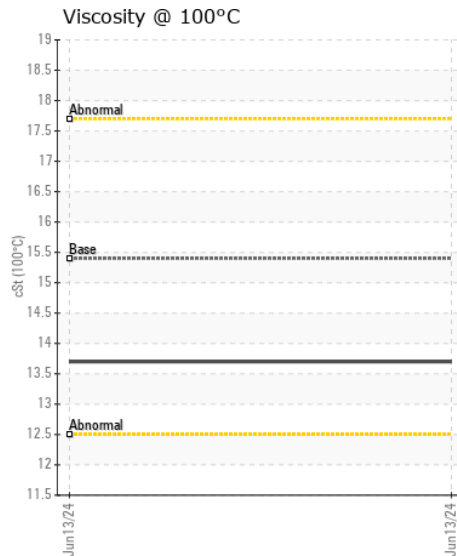
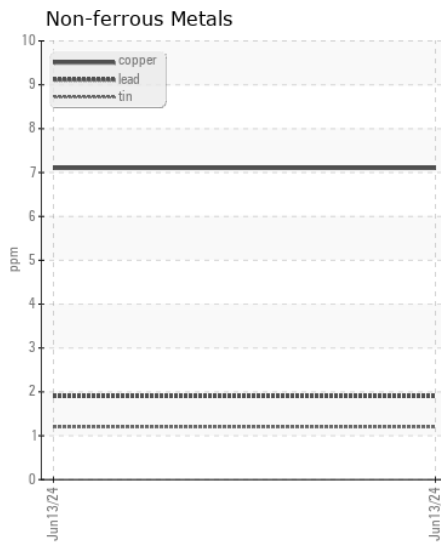
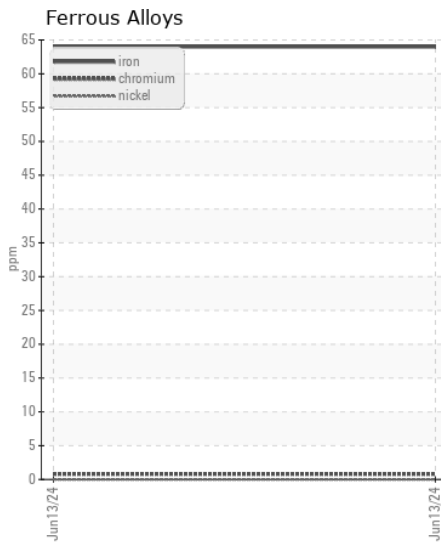
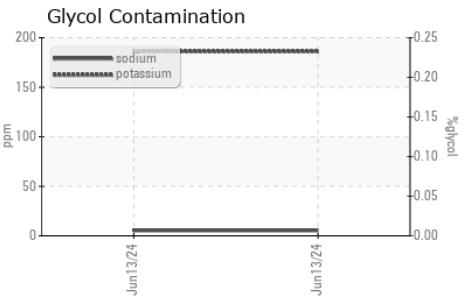
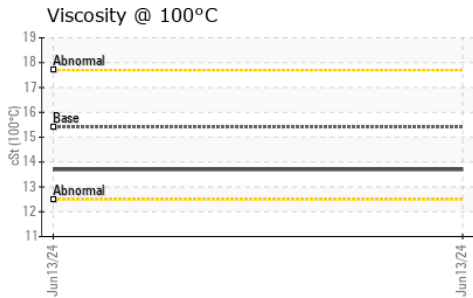
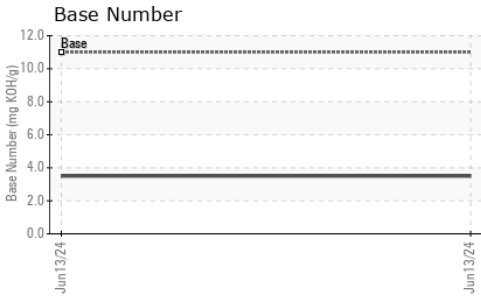
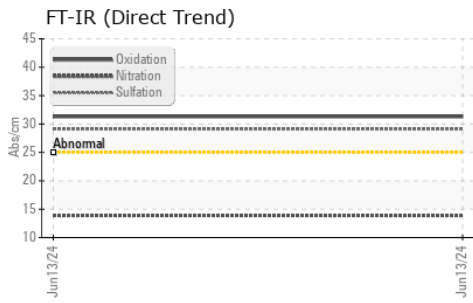
Sodium and/or potassium levels are high.

Silicon	ppm	ASTM D5185m	>25	13	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 186	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.8	---	---
Nitration	Abs/cm	*ASTM D7624	>20	13.9	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.1	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---	---

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m	13	21	---	---
Barium	ppm	ASTM D5185m	0	1	---	---
Molybdenum	ppm	ASTM D5185m	57	463	---	---
Manganese	ppm	ASTM D5185m		1	---	---
Magnesium	ppm	ASTM D5185m	825	767	---	---
Calcium	ppm	ASTM D5185m	1100	1096	---	---
Phosphorus	ppm	ASTM D5185m	933	788	---	---
Zinc	ppm	ASTM D5185m	1089	1016	---	---
Sulfur	ppm	ASTM D5185m	2769	3201	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.3	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	3.5	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.7	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0004225 **Received** : 28 Jun 2024  
**Lab Number** : 06223368 **Tested** : 01 Jul 2024  
**Unique Number** : 11101565 **Diagnosed** : 01 Jul 2024 - Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

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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)