



WEAR **NORMAL**

CONTAMINATION **MARGINAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area

[PAC7025]

Machine Id

PETERBILT 496-356

Component

Diesel Engine

Fluid

CITGO CITGUARD 600 15W40 (24 QTS)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0004370	---	---
Sample Date		Client Info		18 May 2023	---	---
Machine Age	mls	Client Info		42412	---	---
Oil Age	mls	Client Info		12675	---	---
Filter Age	mls	Client Info		12675	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				MARGINAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	28	---	---
Chromium	ppm	ASTM D5185m	>20	<1	---	---
Nickel	ppm	ASTM D5185m	>4	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>20	15	---	---
Lead	ppm	ASTM D5185m	>40	1	---	---
Copper	ppm	ASTM D5185m	>330	116	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

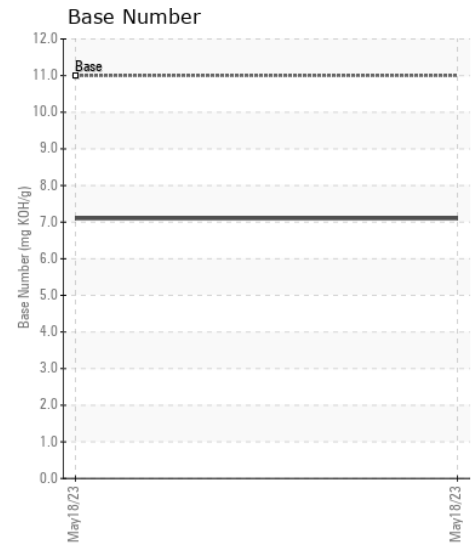
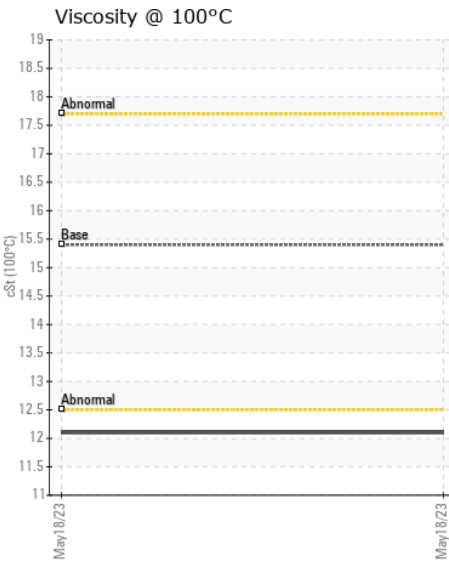
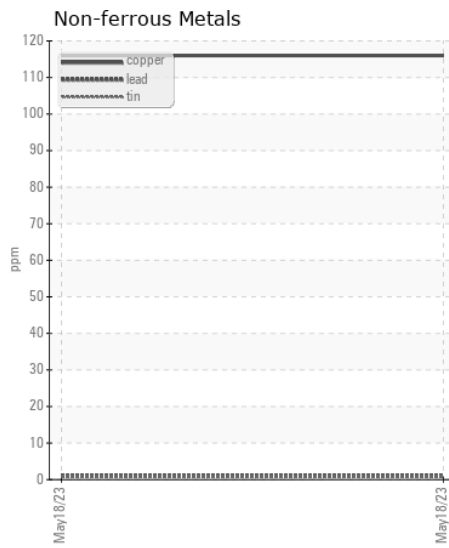
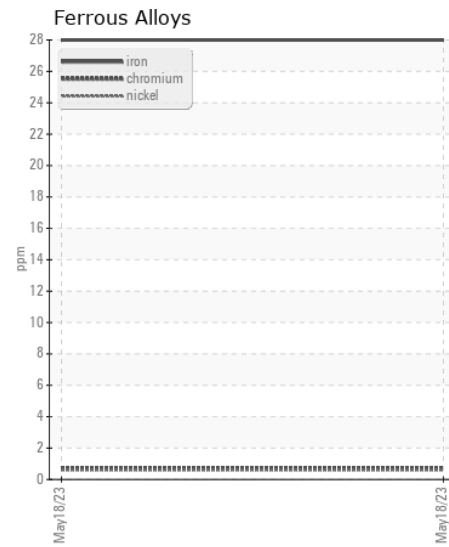
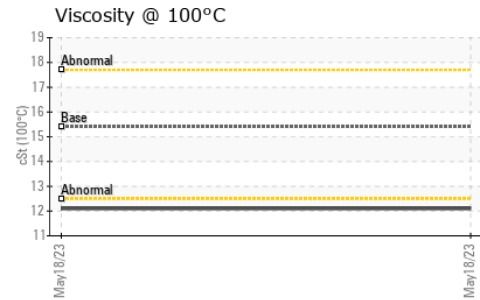
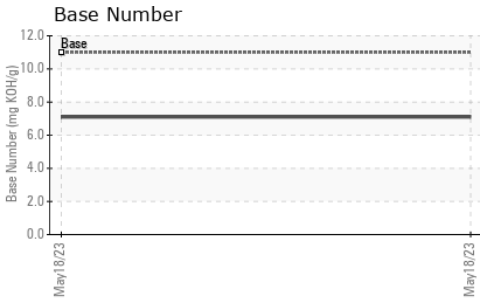
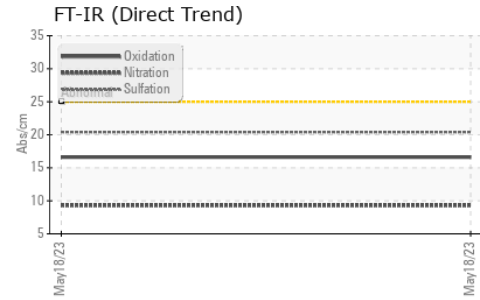
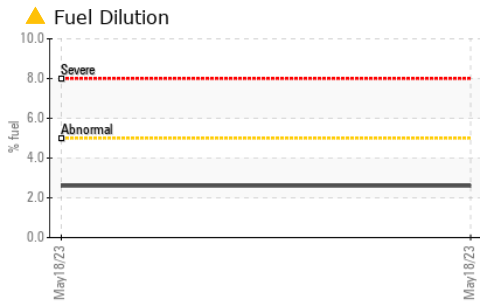
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	5	---	---
Potassium	ppm	ASTM D5185m	>20	26	---	---
Fuel	%	ASTM D3524	>5	▲ 2.6	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	*ASTM D7844	>3	0.3	---	---
Nitration	Abs/cm	*ASTM D7624	>20	9.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	---	---
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m	13	<1	---	---
Barium	ppm	ASTM D5185m	0	10	---	---
Molybdenum	ppm	ASTM D5185m	57	61	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	825	407	---	---
Calcium	ppm	ASTM D5185m	1100	1549	---	---
Phosphorus	ppm	ASTM D5185m	933	857	---	---
Zinc	ppm	ASTM D5185m	1089	1167	---	---
Sulfur	ppm	ASTM D5185m	2769	3103	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	7.1	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.1	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0004370 **Received** : 24 Oct 2023
Lab Number : 05988548 **Tested** : 26 Oct 2023
Unique Number : 10711210 **Diagnosed** : 26 Oct 2023 - Wes Davis
Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

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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)