



WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**

OIL ANALYSIS REPORT

Area

(RPL0004471)

Machine Id

PETERBILT 453732

Component

Diesel Engine

Fluid

CITGO CITGUARD 600 15W40 (26 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0012803	RPL0004590	RPL0004513
Sample Date		Client Info		05 Jun 2024	26 Sep 2023	07 Mar 2023
Machine Age	hrs	Client Info		2555	2113	1612
Oil Age	hrs	Client Info		178	300	204
Filter Age	hrs	Client Info		178	300	204
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	4	9	7
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	8	3
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

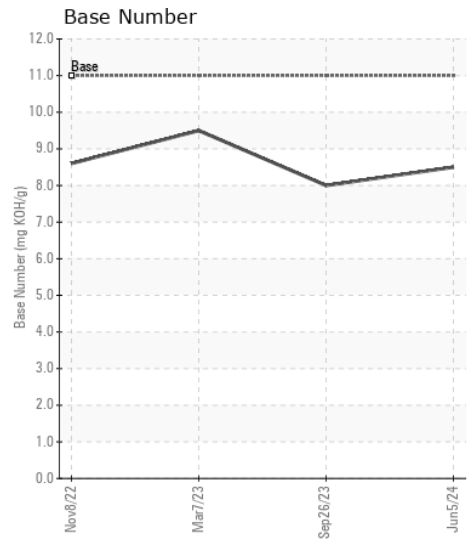
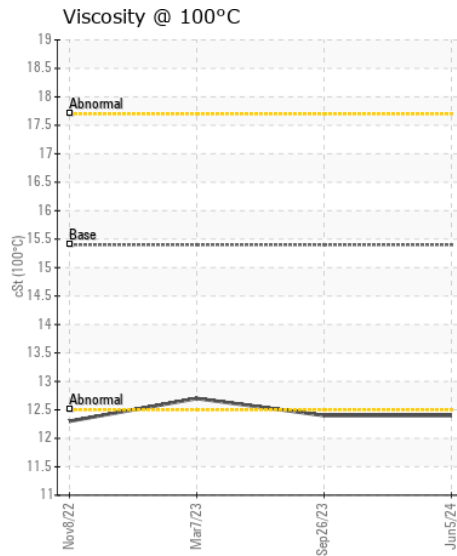
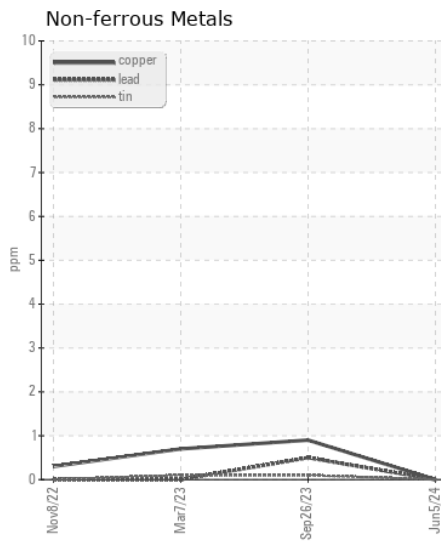
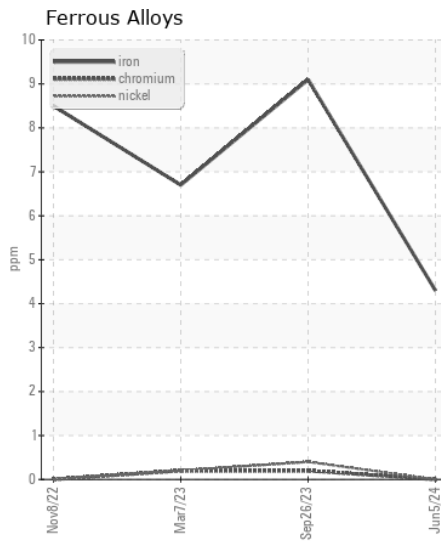
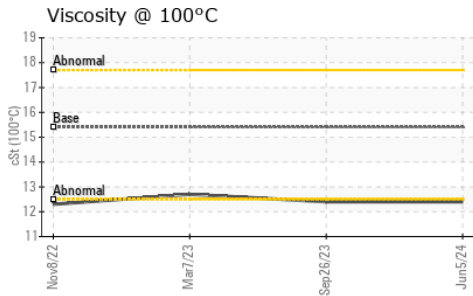
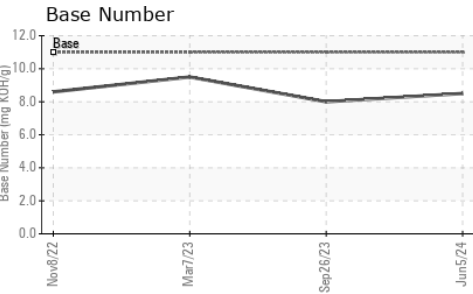
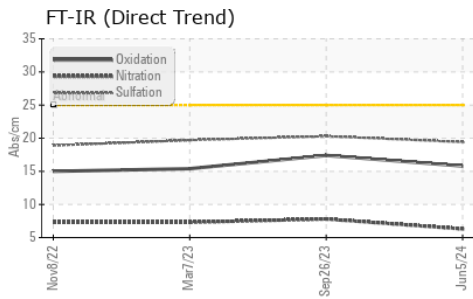
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	3	3	3
Potassium	ppm	ASTM D5185m	>20	4	20	7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.3	7.8	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	20.3	19.7
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	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		1	0	0
Boron	ppm	ASTM D5185m	13	0	0	17
Barium	ppm	ASTM D5185m	0	0	9	2
Molybdenum	ppm	ASTM D5185m	57	58	64	59
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	825	385	388	774
Calcium	ppm	ASTM D5185m	1100	1906	1702	1163
Phosphorus	ppm	ASTM D5185m	933	1073	1027	977
Zinc	ppm	ASTM D5185m	1089	1249	1211	1144
Sulfur	ppm	ASTM D5185m	2769	3819	3329	3082
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	17.4	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	8.5	8.0	9.5
Visc @ 100°C	cSt	ASTM D445	15.4	12.4	12.4	12.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0012803
Lab Number : 06234250
Unique Number : 11123084
Test Package : FLEET
Received : 11 Jul 2024
Tested : 12 Jul 2024
Diagnosed : 12 Jul 2024 - Wes Davis

RTL PACLEASE - 7010 - Florida
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 US 32824
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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)