



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 453681
Component
Diesel Engine
Fluid
CITGO CITGUARD 600 15W40 (46 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0012818	RPL0004530	RPL0004461
Sample Date		Client Info		08 Jul 2024	11 Apr 2023	22 Sep 2022
Machine Age	hrs	Client Info		11258	8441	7196
Oil Age	hrs	Client Info		2143	1245	612
Filter Age	hrs	Client Info		2143	1245	612
Oil Changed		Client Info		Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	43	12	6
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m	>330	2	2	<1
Tin	ppm	ASTM D5185m	>15	0	0	<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

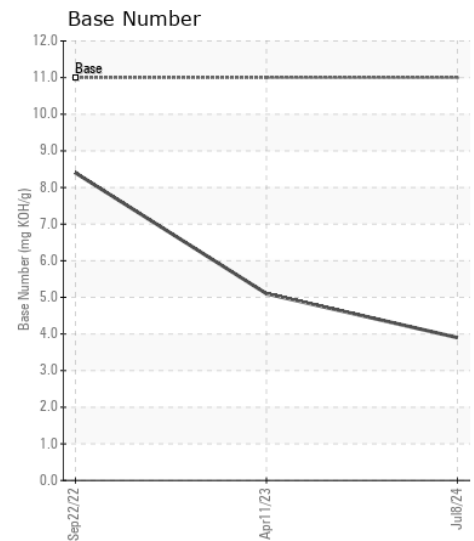
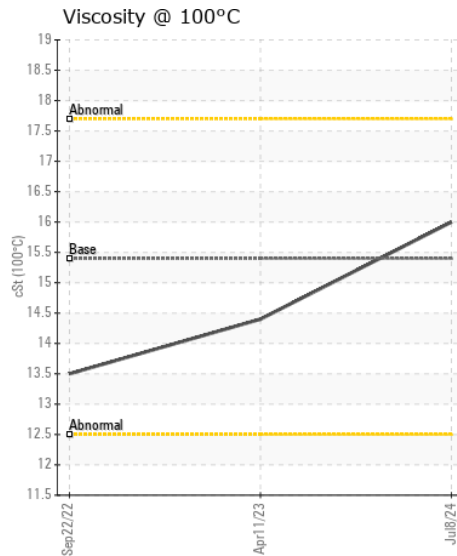
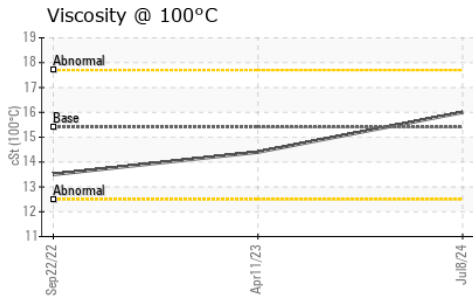
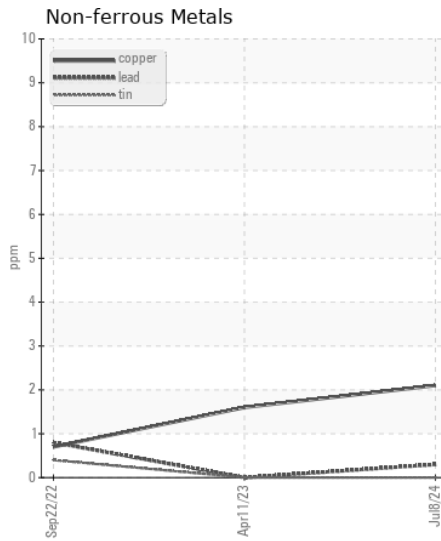
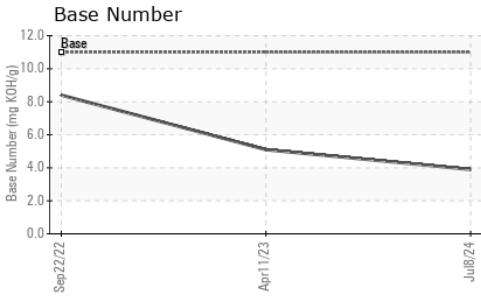
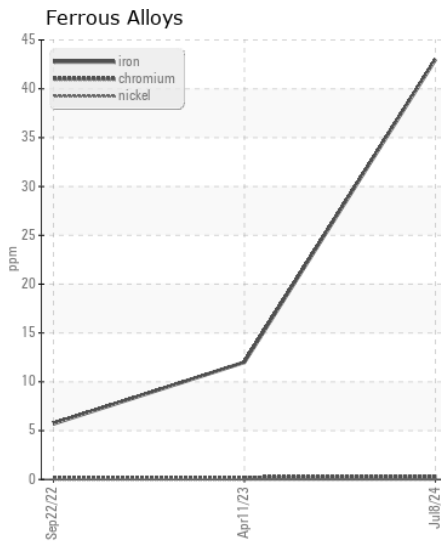
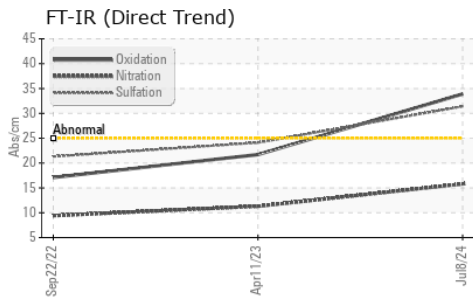
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	5	5
Potassium	ppm	ASTM D5185m	>20	5	<1	0
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	0.9	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	15.8	11.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.4	24.1	21.3
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	<1	<1
Boron	ppm	ASTM D5185m	13	15	8	6
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	57	49	64	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	825	350	902	414
Calcium	ppm	ASTM D5185m	1100	2238	1234	1686
Phosphorus	ppm	ASTM D5185m	933	1115	1057	971
Zinc	ppm	ASTM D5185m	1089	1335	1314	1218
Sulfur	ppm	ASTM D5185m	2769	3392	3735	3553
Oxidation	Abs/.1mm	*ASTM D7414	>25	33.9	21.7	17.1
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	3.9	5.1	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	16.0	14.4	13.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0012818 **Received** : 11 Jul 2024
Lab Number : 06234252 **Tested** : 12 Jul 2024
Unique Number : 11123086 **Diagnosed** : 14 Jul 2024 - Don Baldrige
Test Package : FLEET

RTL PACLEASE - 7010 - Florida
 9407 Bachman Road
 Orlando, FL
 US 32824

Contact: John Churchwell
 ChurchwellJ@rushenterprises.com

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)

T: (407)240-7511
F: