



PacLease

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
PETERBILT 453747
Component
Diesel Engine
Fluid
CITGO CITGUARD 600 15W40 (43 QTS)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0012776	RPL0004519	RPL0004600
Sample Date		Client Info		31 Oct 2023	27 Mar 2023	10 Jan 2023
Machine Age	hrs	Client Info		2884	1901	1576
Oil Age	hrs	Client Info		2299	960	585
Filter Age	hrs	Client Info		2299	960	585
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	▲ 155	69	48
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	24	18	17
Lead	ppm	ASTM D5185m	>40	1	<1	0
Copper	ppm	ASTM D5185m	>330	14	8	7
Tin	ppm	ASTM D5185m	>15	2	1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

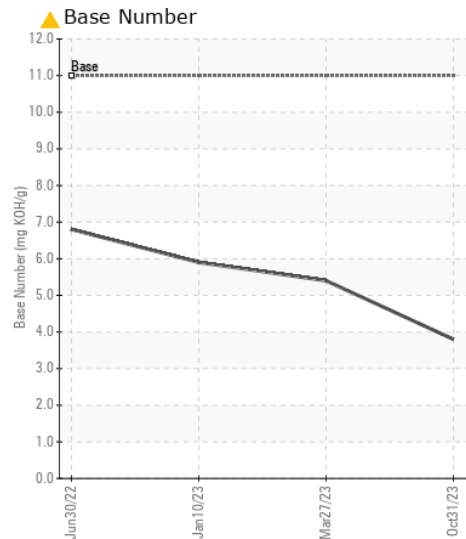
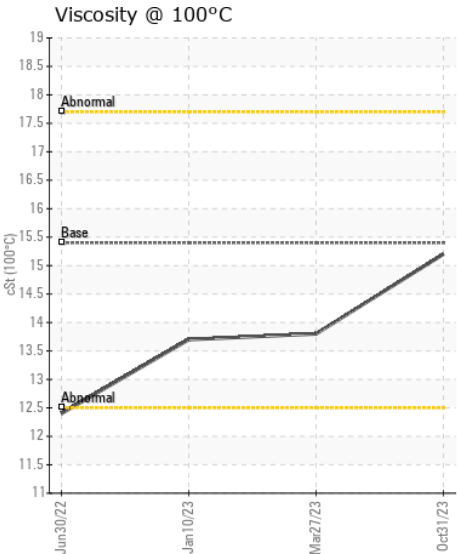
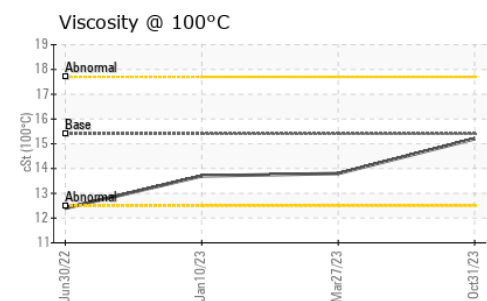
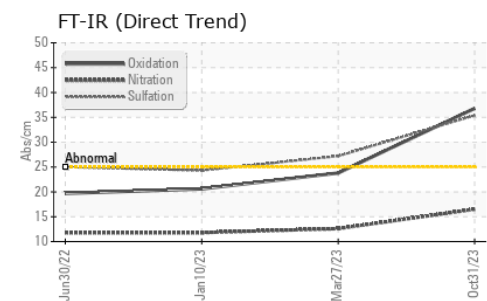
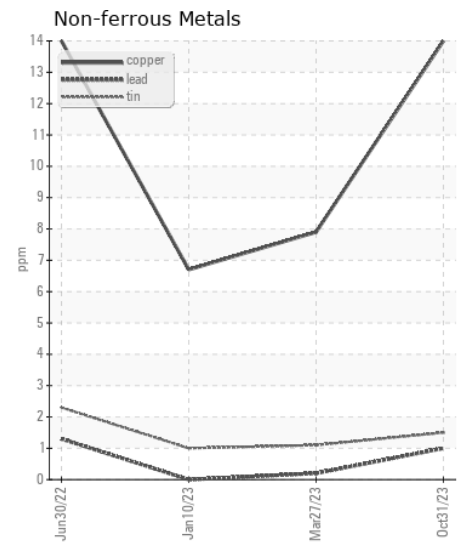
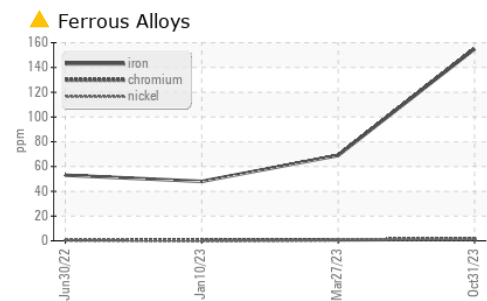
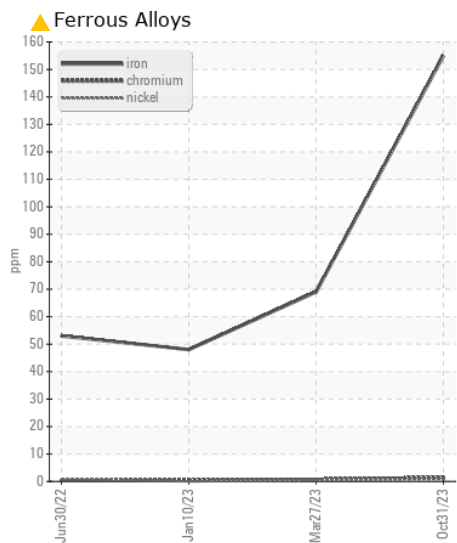
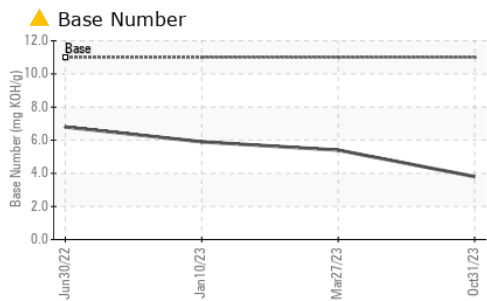
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	21	14	12
Potassium	ppm	ASTM D5185m	>20	49	35	37
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	1	0.6	0.4
Nitration	Abs/cm	*ASTM D7624	>20	16.5	12.6	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	35.4	27.2	24.3
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		3	2	2
Boron	ppm	ASTM D5185m	13	10	11	9
Barium	ppm	ASTM D5185m	0	10	2	0
Molybdenum	ppm	ASTM D5185m	57	72	62	57
Manganese	ppm	ASTM D5185m		3	2	1
Magnesium	ppm	ASTM D5185m	825	447	418	441
Calcium	ppm	ASTM D5185m	1100	2022	1869	1780
Phosphorus	ppm	ASTM D5185m	933	1081	1029	996
Zinc	ppm	ASTM D5185m	1089	1397	1250	1226
Sulfur	ppm	ASTM D5185m	2769	3425	3018	2997
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.8	23.8	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	▲ 3.8	5.4	5.9
Visc @ 100°C	cSt	ASTM D445	15.4	15.2	13.8	13.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0012776
Lab Number : 06013653
Unique Number : 10752797
Test Package : FLEET
Received : 21 Nov 2023
Tested : 21 Nov 2023
Diagnosed : 23 Nov 2023 - Don Baldrige

RTL PACLEASE - 7010 - Florida
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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)