OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
[PAC7025]
Machine Id
PETERBILT 496637
Component
Diesel Engine
Fluid
CITGO CITGUARD 600 15W40 (48 QTS)

RECOMMENDATION

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

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

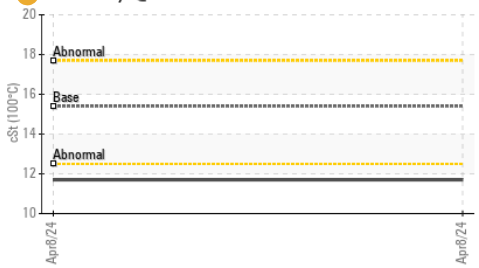
Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.

FLUID CONDITION

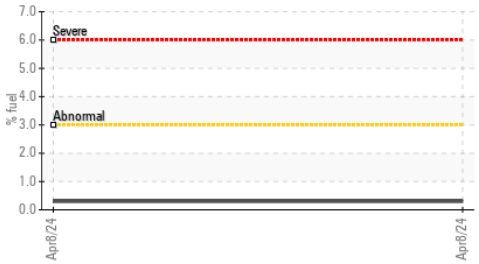
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0004181	---	---
Sample Date		Client Info		08 Apr 2024	---	---
Machine Age	mls	Client Info		38372	---	---
Oil Age	mls	Client Info		38372	---	---
Filter Age	mls	Client Info		38372	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
Iron	ppm	ASTM D5185m	>165	71	---	---
Chromium	ppm	ASTM D5185m	>5	2	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m	>2	0	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>20	33	---	---
Lead	ppm	ASTM D5185m	>150	7	---	---
Copper	ppm	ASTM D5185m	>90	23	---	---
Tin	ppm	ASTM D5185m	>5	2	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>35	33	---	---
Potassium	ppm	ASTM D5185m	>20	▲ 134	---	---
Fuel	%	ASTM D3524	>3.0	0.3	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	*ASTM D2982		NEG	---	---
Soot %	%	*ASTM D7844	>7.5	0.5	---	---
Nitration	Abs/cm	*ASTM D7624	>20	12.3	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	---	---
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	---	---
Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m	13	17	---	---
Barium	ppm	ASTM D5185m	0	4	---	---
Molybdenum	ppm	ASTM D5185m	57	12	---	---
Manganese	ppm	ASTM D5185m		6	---	---
Magnesium	ppm	ASTM D5185m	825	605	---	---
Calcium	ppm	ASTM D5185m	1100	1320	---	---
Phosphorus	ppm	ASTM D5185m	933	661	---	---
Zinc	ppm	ASTM D5185m	1089	817	---	---
Sulfur	ppm	ASTM D5185m	2769	2888	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	5.0	---	---
Visc @ 100°C	cSt	ASTM D445	15.4	● 11.7	---	---

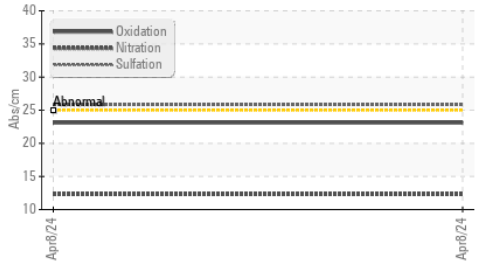
Viscosity @ 100°C



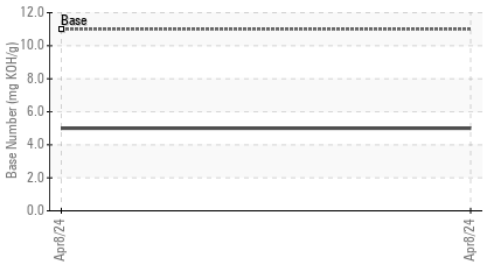
Fuel Dilution



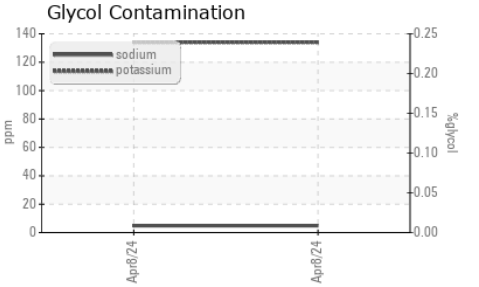
FT-IR (Direct Trend)



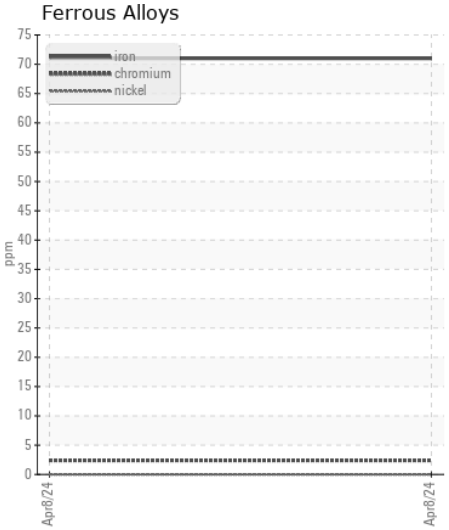
Base Number



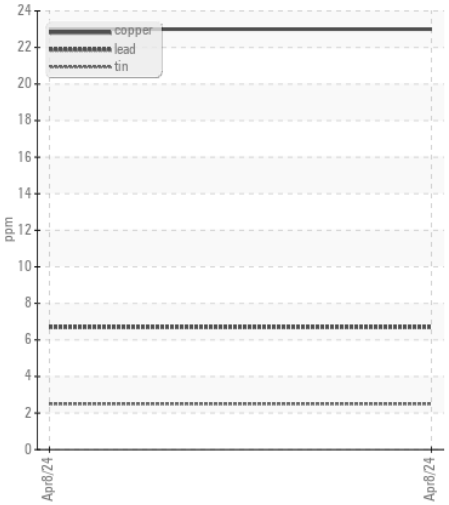
Glycol Contamination



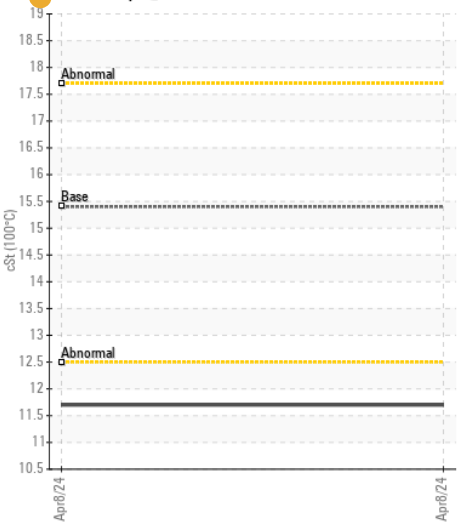
Ferrous Alloys



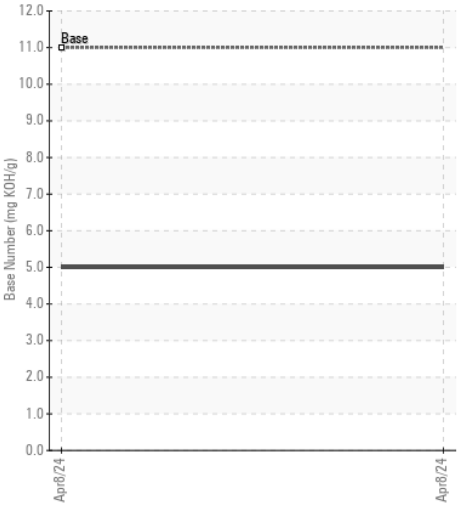
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0004181
Lab Number : 06178255
Unique Number : 11029581
Test Package : FLEET (Additional Tests: FuelDilution, Glycol, PercentFuel)

Received : 13 May 2024
Tested : 17 May 2024
Diagnosed : 17 May 2024 - Jonathan Hester

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)

RTL PACLEASE - 7025 - Tampa
8109 East Adamo Drive
Tampa, FL
US 33619
Contact: Michael Reid
REIDM@RushEnterprises.com
T: (813)371-2130
F: