OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PETERBILT 8271030
Component
Diesel Engine
Fluid
CHEVRON DELO 400 SAE 10W30 (44 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.

WEAR

All component wear rates are normal.

CONTAMINATION

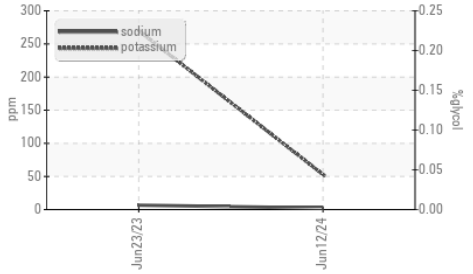
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

FLUID CONDITION

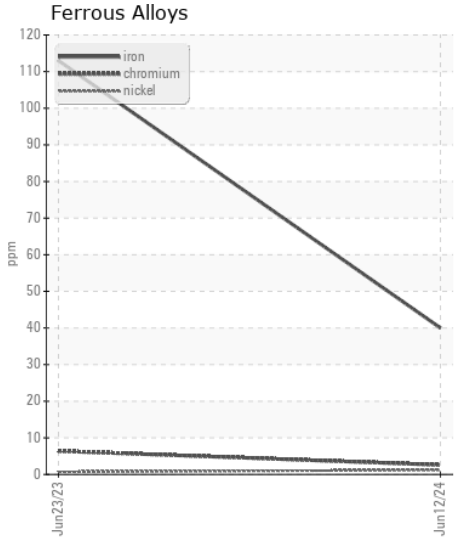
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0004773	RPL0004699	---
Sample Date		Client Info		12 Jun 2024	23 Jun 2023	---
Machine Age	mls	Client Info		52147	34225	---
Oil Age	mls	Client Info		17922	34225	---
Filter Age	mls	Client Info		17922	34225	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---
Iron	ppm	ASTM D5185m	>100	40	113	---
Chromium	ppm	ASTM D5185m	>20	3	6	---
Nickel	ppm	ASTM D5185m	>4	1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	20	101	---
Lead	ppm	ASTM D5185m	>40	2	5	---
Copper	ppm	ASTM D5185m	>330	5	26	---
Tin	ppm	ASTM D5185m	>15	2	4	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	14	47	---
Potassium	ppm	ASTM D5185m	>20	53	270	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	9.0	13.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	27.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---
Sodium	ppm	ASTM D5185m		2	7	---
Boron	ppm	ASTM D5185m		160	17	---
Barium	ppm	ASTM D5185m		2	4	---
Molybdenum	ppm	ASTM D5185m		73	24	---
Manganese	ppm	ASTM D5185m		2	8	---
Magnesium	ppm	ASTM D5185m		477	850	---
Calcium	ppm	ASTM D5185m		1415	1378	---
Phosphorus	ppm	ASTM D5185m	1260	959	805	---
Zinc	ppm	ASTM D5185m	1400	1197	988	---
Sulfur	ppm	ASTM D5185m		3073	3428	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	25.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	5.9	5.2	---
Visc @ 100°C	cSt	ASTM D445	11.1	11.1	12.0	---

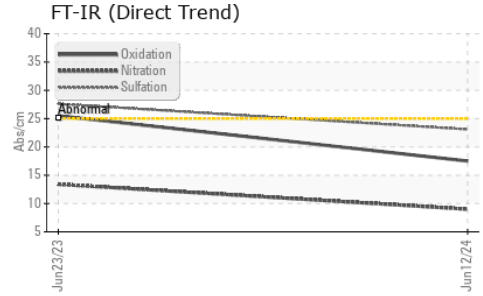
Glycol Contamination



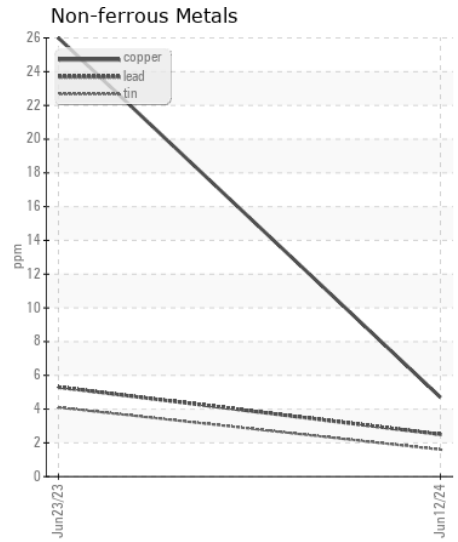
Ferrous Alloys



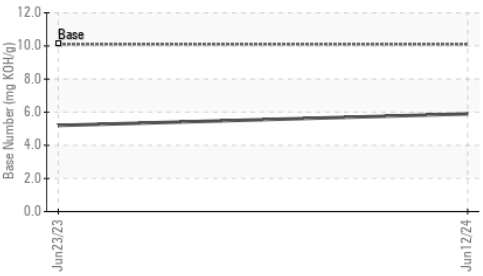
FT-IR (Direct Trend)



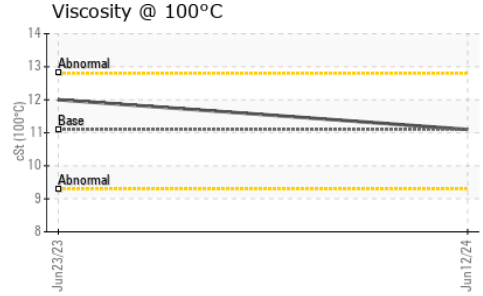
Non-ferrous Metals



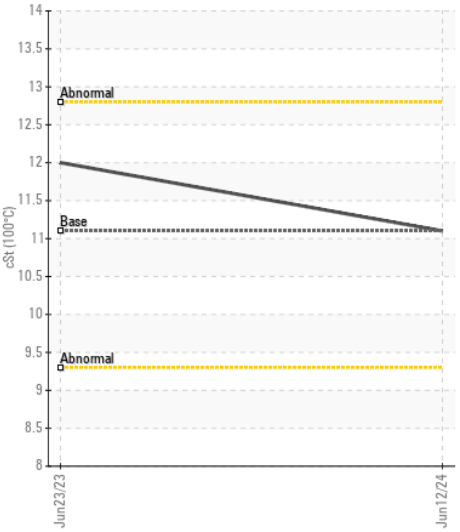
Base Number



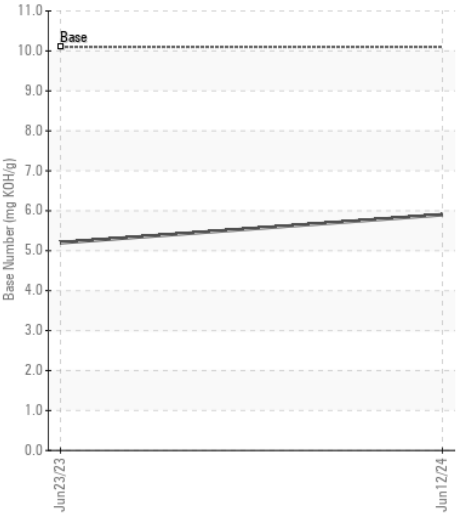
Viscosity @ 100°C



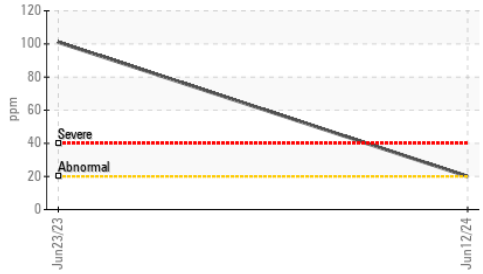
Viscosity @ 100°C



Base Number



Aluminum (ppm)



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0004773
Lab Number : 06223163
Unique Number : 11101360
Test Package : FLEET

Received : 28 Jun 2024
Tested : 28 Jun 2024
Diagnosed : 30 Jun 2024 - Don Baldridge

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 - 7009 - Nashville
900 Expo Dr.
Smyrna, TN
US 37167
Contact: Jon Atwood
AtwoodJ@RushEnterprises.com
T: (800)489-7403
F: