OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44820744]
Machine Id
PETERBILT 9571931 Southwaste
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (48 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

Metal levels are typical for a new component breaking in.

CONTAMINATION

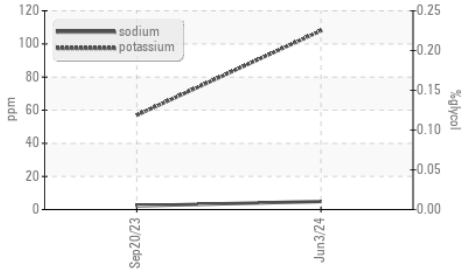
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

FLUID CONDITION

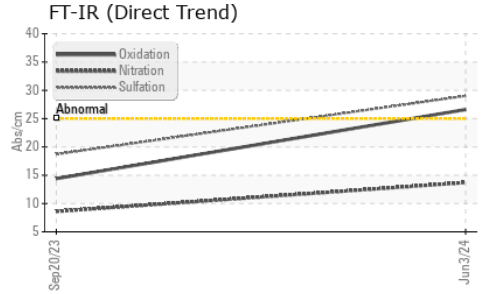
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016509	RPL0013633	---
Sample Date		Client Info		03 Jun 2024	20 Sep 2023	---
Machine Age	mls	Client Info		46433	10850	---
Oil Age	mls	Client Info		46433	10850	---
Filter Age	mls	Client Info		46433	10850	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	ATTENTION	---
Iron	ppm	ASTM D5185m	>100	112	43	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>4	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	1	<1	---
Aluminum	ppm	ASTM D5185m	>20	28	17	---
Lead	ppm	ASTM D5185m	>40	1	0	---
Copper	ppm	ASTM D5185m	>330	25	13	---
Tin	ppm	ASTM D5185m	>15	3	1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>25	17	12	---
Potassium	ppm	ASTM D5185m	>20	108	57	---
Fuel		WC Method	>5	<1.0	0.3	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	13.7	8.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.0	18.7	---
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		5	2	---
Boron	ppm	ASTM D5185m		13	50	---
Barium	ppm	ASTM D5185m		3	2	---
Molybdenum	ppm	ASTM D5185m		15	6	---
Manganese	ppm	ASTM D5185m		4	2	---
Magnesium	ppm	ASTM D5185m		730	829	---
Calcium	ppm	ASTM D5185m		1442	1356	---
Phosphorus	ppm	ASTM D5185m		811	759	---
Zinc	ppm	ASTM D5185m		990	900	---
Sulfur	ppm	ASTM D5185m		2999	3082	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	26.6	14.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	12	4.2	6.6	---
Visc @ 100°C	cSt	ASTM D445	14.4	12.9	11.7	---

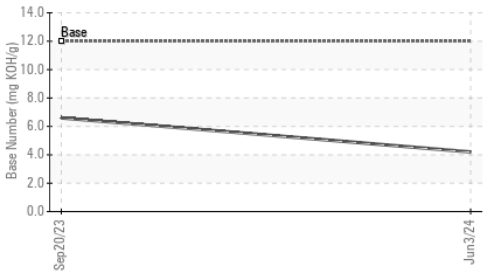
Glycol Contamination



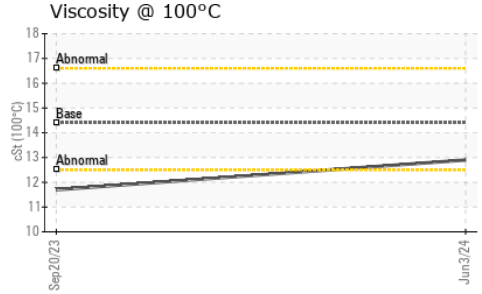
FT-IR (Direct Trend)



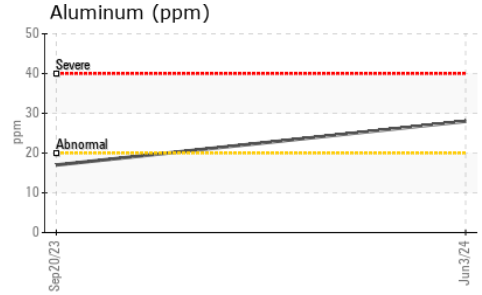
Base Number



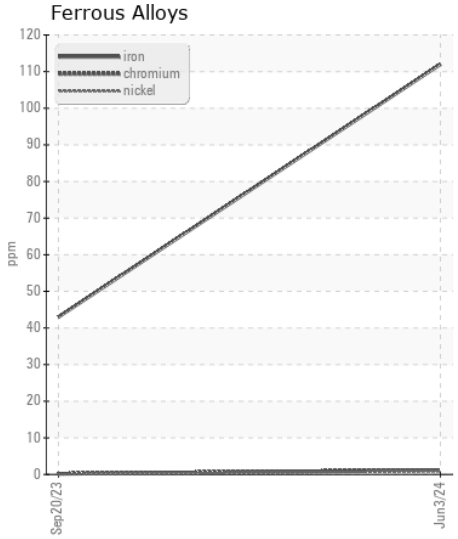
Viscosity @ 100°C



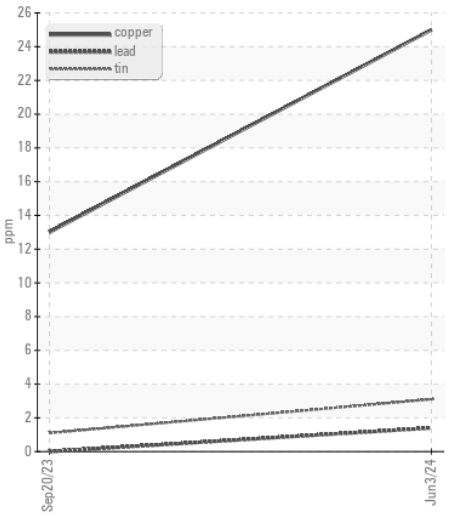
Aluminum (ppm)



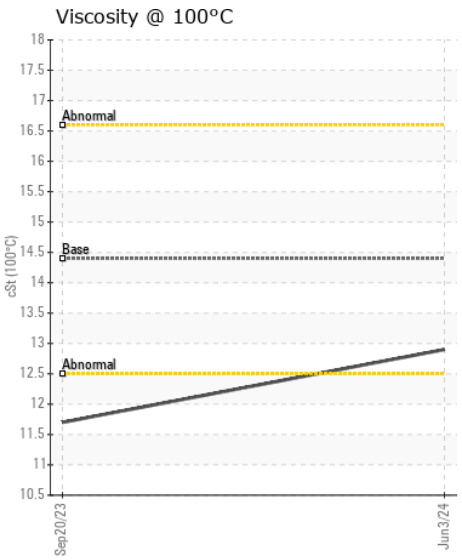
Ferrous Alloys



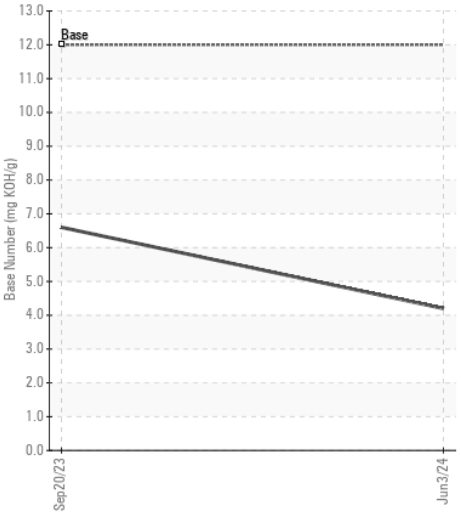
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RPL0016509
Lab Number : 06219331
Unique Number : 11097528
Test Package : FLEET

Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 26 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 - 7002 - San Antonio
8810 IH-10 Frontage Road
Converse, TX
US 78109
Contact: Mike Friel
FrielM@RushEnterprises.Com
T: (210)901-7283
F: