OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area
[42828720]
Machine Id
PETERBILT 957-1709 Southwaste
Component
Diesel Engine
Fluid
MOBIL DELVAC MX 15W40 (40 QTS)

RECOMMENDATION

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

WEAR

All component wear rates are normal.

CONTAMINATION

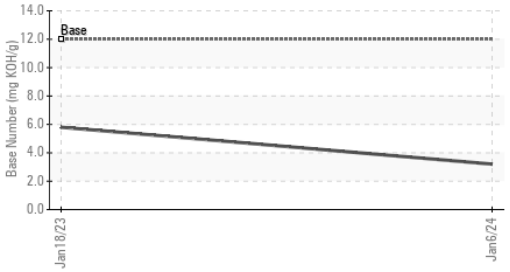
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

FLUID CONDITION

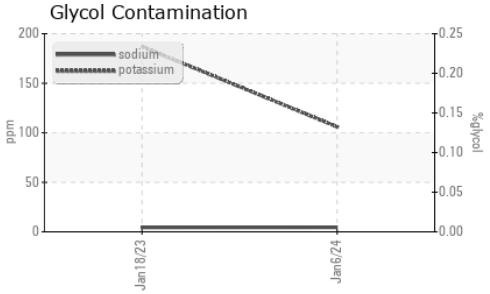
The BN level is low.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RPL0016406	RPL0006690	---
Sample Date		Client Info		06 Jan 2024	18 Jan 2023	---
Machine Age	mls	Client Info		86573	25424	---
Oil Age	mls	Client Info		41765	25424	---
Filter Age	mls	Client Info		41765	25424	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	MARGINAL	---
Iron	ppm	ASTM D5185m	>100	82	66	---
Chromium	ppm	ASTM D5185m	>20	2	2	---
Nickel	ppm	ASTM D5185m	>4	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	40	82	---
Lead	ppm	ASTM D5185m	>40	<1	1	---
Copper	ppm	ASTM D5185m	>330	9	15	---
Tin	ppm	ASTM D5185m	>15	<1	2	---
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	18	16	---
Potassium	ppm	ASTM D5185m	>20	106	187	---
Fuel		WC Method	>5	<1.0	0.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	16.5	10.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3	23.7	---
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		4	4	---
Boron	ppm	ASTM D5185m		10	18	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		41	19	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		668	847	---
Calcium	ppm	ASTM D5185m		1858	1459	---
Phosphorus	ppm	ASTM D5185m		860	824	---
Zinc	ppm	ASTM D5185m		1069	1039	---
Sulfur	ppm	ASTM D5185m		2492	3824	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	36.8	18.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	12	▲ 3.2	5.8	---
Visc @ 100°C	cSt	ASTM D445	14.4	14.8	▲ 12.4	---

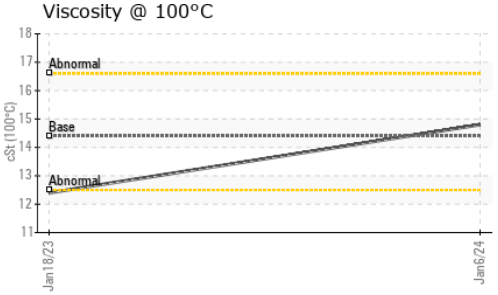
Base Number



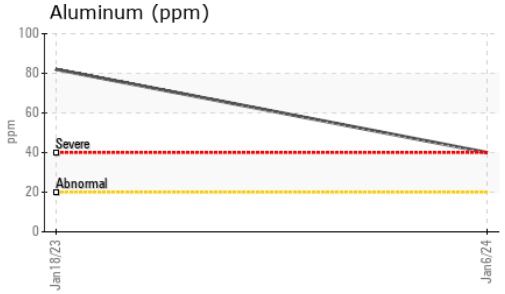
Glycol Contamination



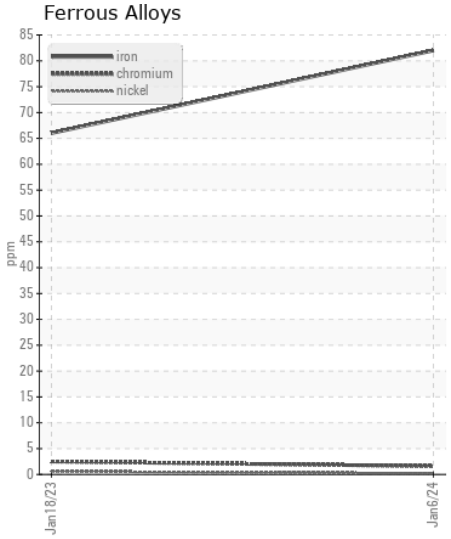
Viscosity @ 100°C



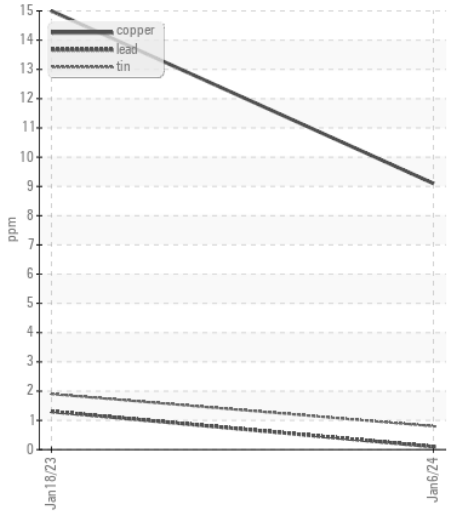
Aluminum (ppm)



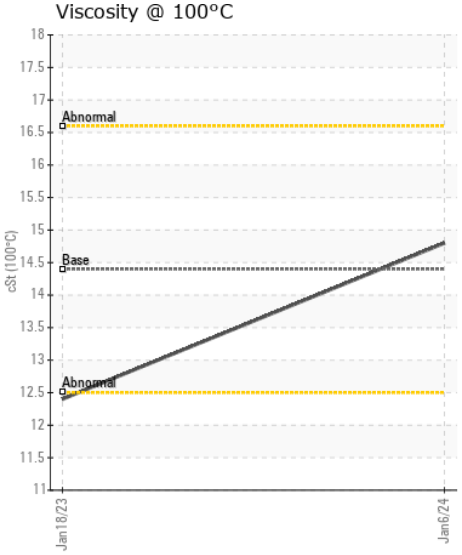
Ferrous Alloys



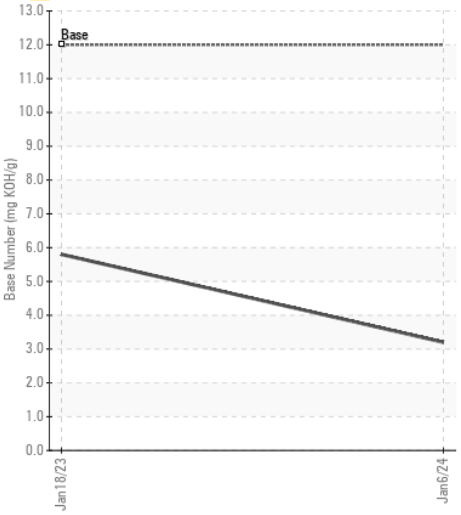
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: RPL0016406	**Recieved**	: 17 Jan 2024
Lab Number	: 06062372	**Diagnosed**	: 18 Jan 2024
Unique Number	: 10833754	**Diagnostician**	: Sean Felton
Test Package	: FLEET		

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)

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