



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**(MYSTIC)**  
Machine Id  
**PETERBILT 37**  
Component  
**Diesel Engine**  
Fluid  
**KENDALL SUPER-D XA 15W40 (42 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LP0001400</b>	LP0001248	---
Sample Date		Client Info		<b>10 Feb 2024</b>	23 Dec 2023	---
Machine Age	mls	Client Info		<b>876522</b>	864614	---
Oil Age	mls	Client Info		<b>10000</b>	10430	---
Filter Age	mls	Client Info		<b>10000</b>	10430	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>12</b>	13	---
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>89</b>	77	---
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>85	<b>3</b>	3	---
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

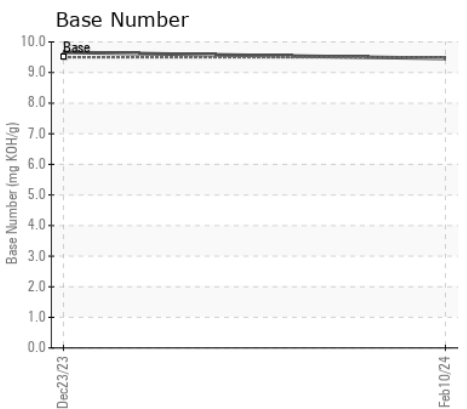
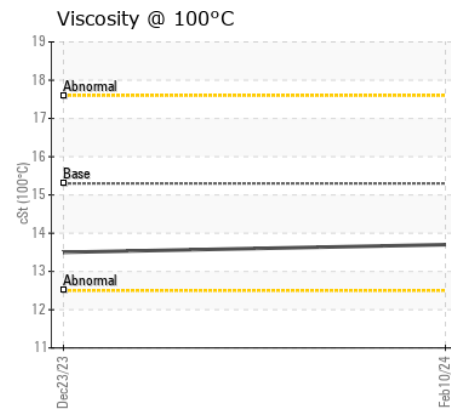
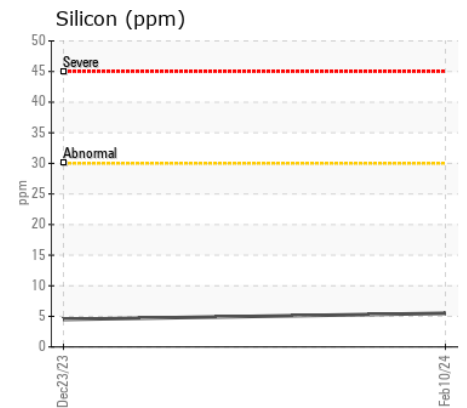
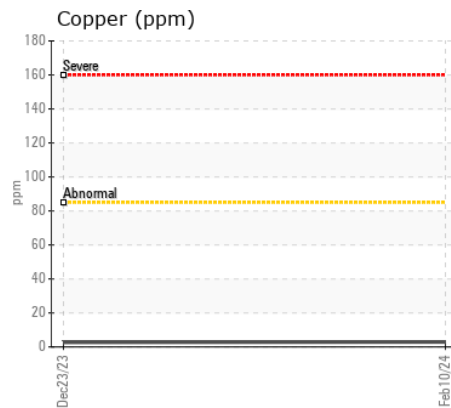
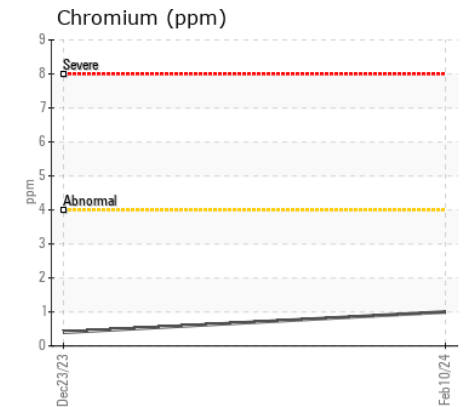
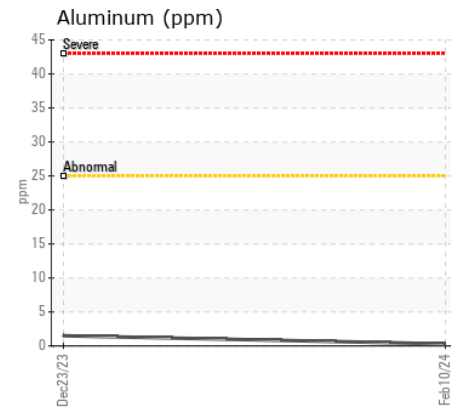
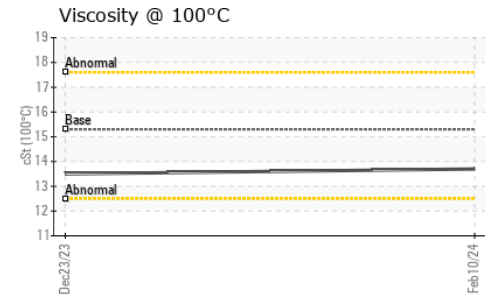
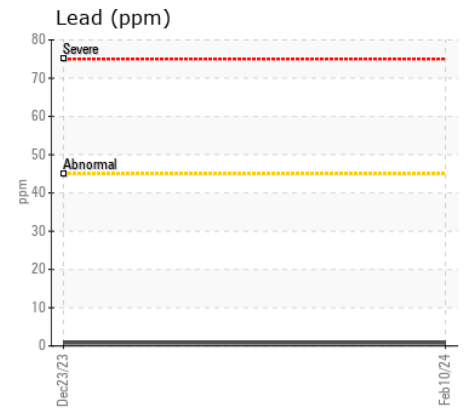
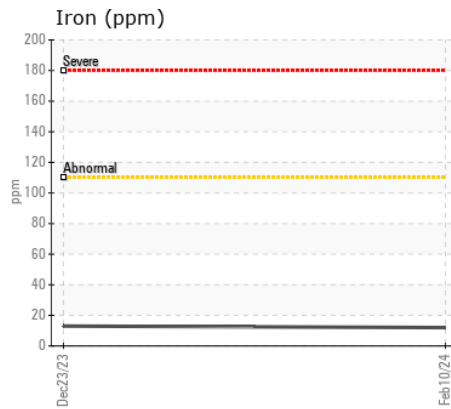
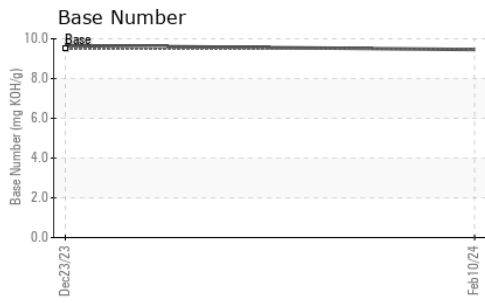
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>6</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	19.7	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	---
Boron	ppm	ASTM D5185m	50	<b>116</b>	100	---
Barium	ppm	ASTM D5185m		<b>5</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>11</b>	7	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	270	<b>449</b>	445	---
Calcium	ppm	ASTM D5185m	1900	<b>1673</b>	1704	---
Phosphorus	ppm	ASTM D5185m	1000	<b>940</b>	1014	---
Zinc	ppm	ASTM D5185m	1260	<b>1200</b>	1221	---
Sulfur	ppm	ASTM D5185m	3400	<b>3919</b>	3796	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	15.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	<b>9.46</b>	9.66	---
Visc @ 100°C	cSt	ASTM D445	15.3	<b>13.7</b>	13.5	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : LP0001400

**Lab Number** : 06099308

**Unique Number** : 10897538

**Test Package** : MOB 2

**Received** : 23 Feb 2024

**Tested** : 26 Feb 2024

**Diagnosed** : 26 Feb 2024 - Wes Davis

**MYSTIC MOTOR TRANS**

3 EBERREADY CIRCLE

BILLERICA, MA

US 01821

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F:

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)