



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(5729A)
Machine Id
PETERBILT 42
Component
Diesel Engine
Fluid
KENDALL 15W40 (42 QTS)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: Current miles 1,445,097. Oil changed after 10,837. 837 miles overdue)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001401	LP0001242	---
Sample Date		Client Info		25 Jan 2024	11 Nov 2023	---
Machine Age	mls	Client Info		1445097	1434260	---
Oil Age	mls	Client Info		10837	10000	---
Filter Age	mls	Client Info		0	10000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	13	15	---
Chromium	ppm	ASTM D5185m	>4	0	<1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		87	74	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	1	2	---
Lead	ppm	ASTM D5185m	>45	<1	1	---
Copper	ppm	ASTM D5185m	>85	6	6	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		1	1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

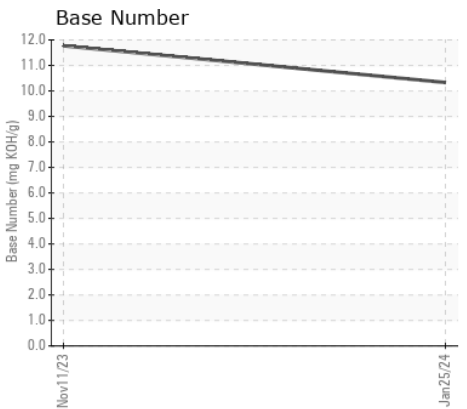
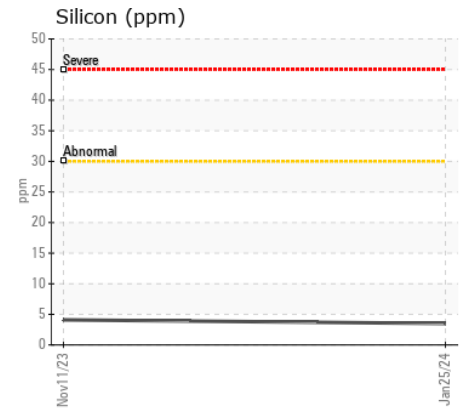
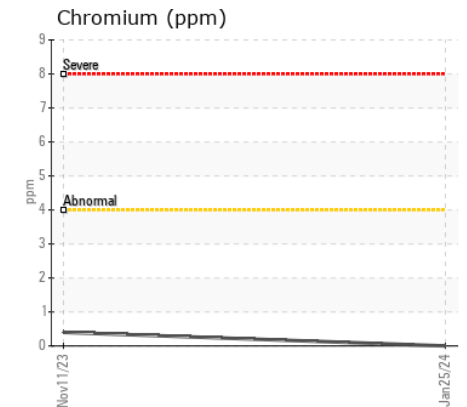
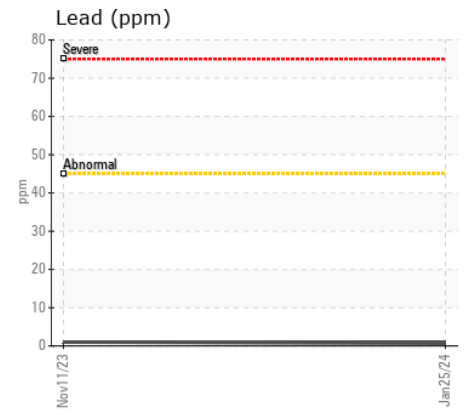
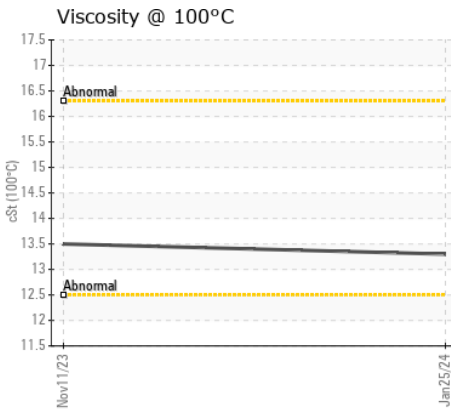
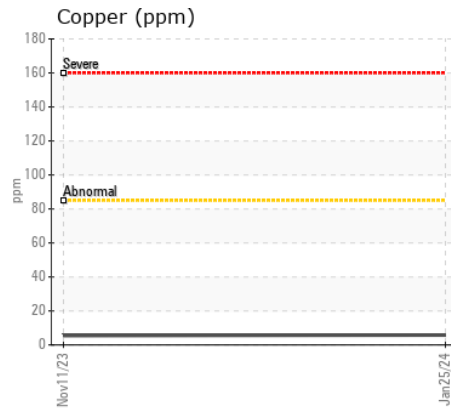
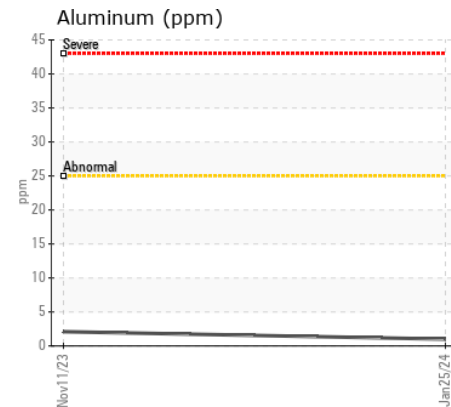
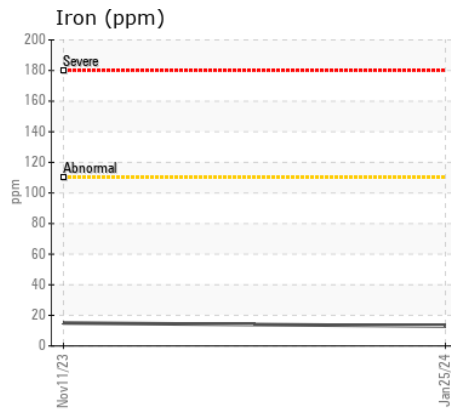
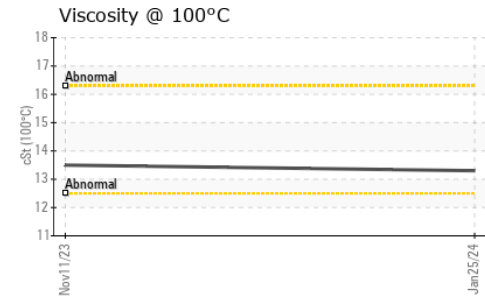
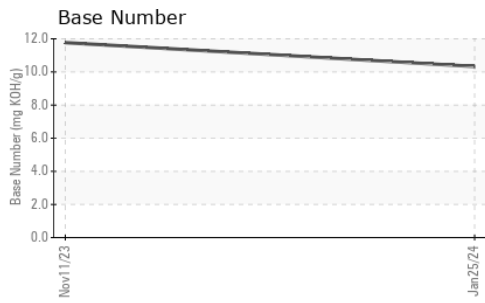
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	4	---
Potassium	ppm	ASTM D5185m	>20	4	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.6	19.2	---
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	---

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		0	3	---
Boron	ppm	ASTM D5185m	6.3	117	118	---
Barium	ppm	ASTM D5185m	0.6	0	0	---
Molybdenum	ppm	ASTM D5185m	0.4	9	9	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	277	418	454	---
Calcium	ppm	ASTM D5185m	1514	1680	1748	---
Phosphorus	ppm	ASTM D5185m	634	872	1068	---
Zinc	ppm	ASTM D5185m	743	1155	1259	---
Sulfur	ppm	ASTM D5185m	2592	3910	4096	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	14.2	---
Base Number (BN)	mg KOH/g	ASTM D2896		10.33	11.77	---
Visc @ 100°C	cSt	ASTM D445		13.3	13.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LP0001401 **Received** : 08 Feb 2024
Lab Number : 06083832 **Tested** : 09 Feb 2024
Unique Number : 10871277 **Diagnosed** : 11 Feb 2024 - Don Baldrige
Test Package : MOB 2

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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