



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(AP9155)
Machine Id
PETERBILT 41
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		LP0001399	LP0001245	LP0001251
Sample Date		Client Info		20 Feb 2024	12 Dec 2023	11 Nov 2023
Machine Age	mls	Client Info		486799	475747	470849
Oil Age	mls	Client Info		12000	470849	12000
Filter Age	mls	Client Info		12000	470849	12000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	13	5	11
Chromium	ppm	ASTM D5185m	>4	1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		91	76	67
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	3
Lead	ppm	ASTM D5185m	>45	1	<1	2
Copper	ppm	ASTM D5185m	>85	2	<1	3
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		1	<1	1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

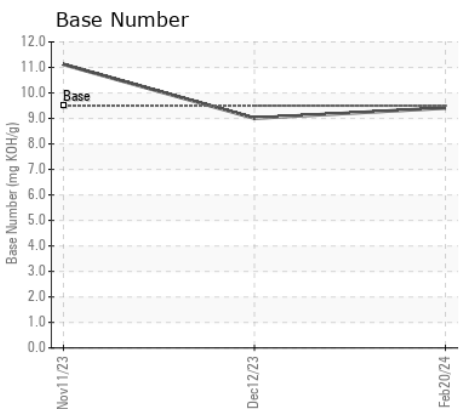
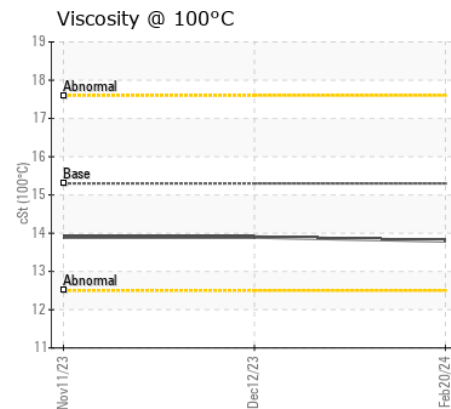
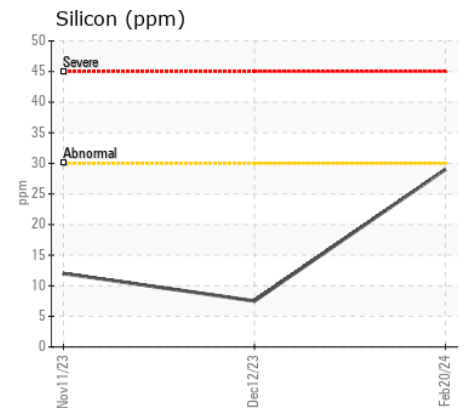
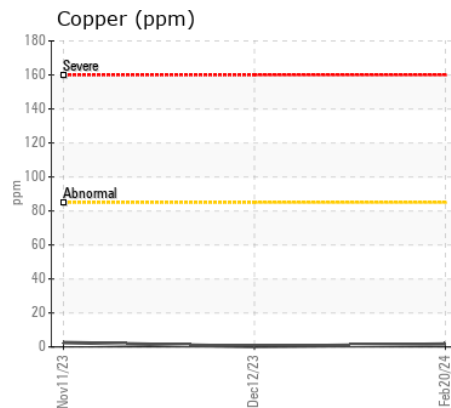
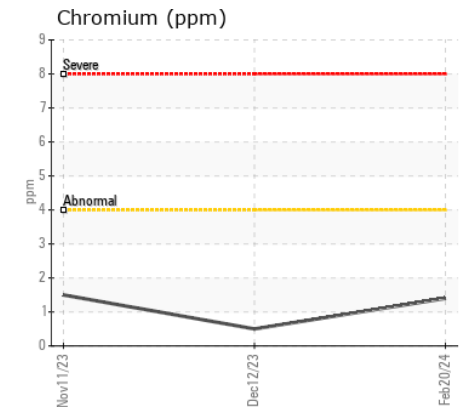
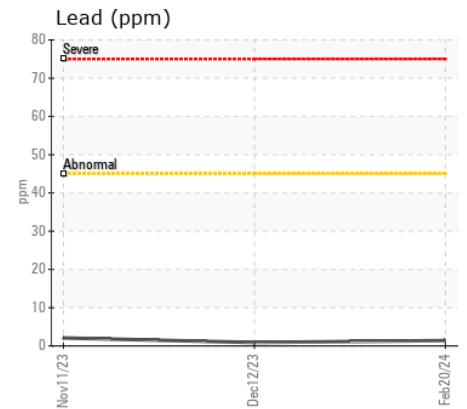
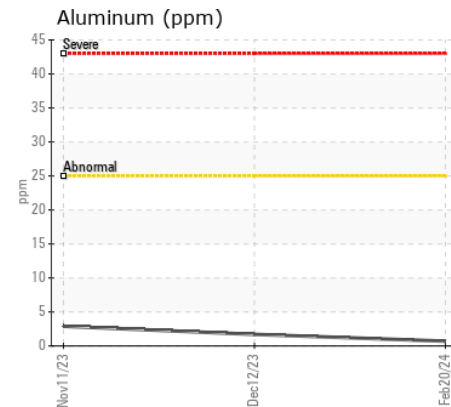
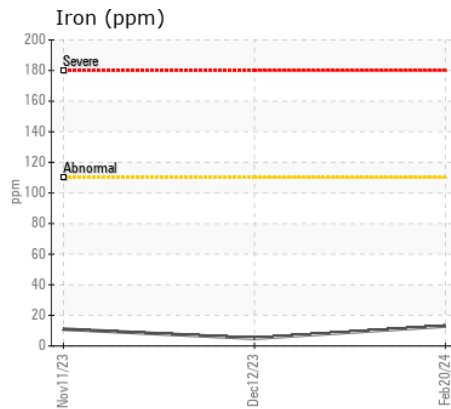
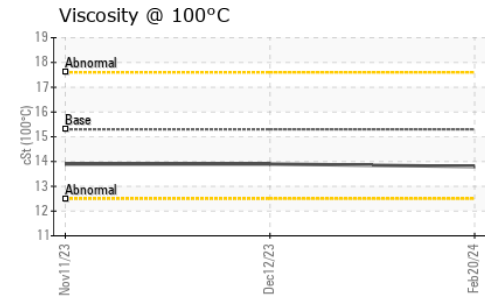
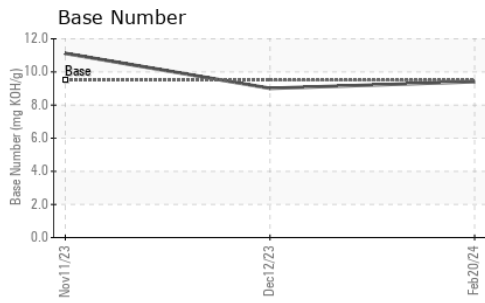
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	29	8	12
Potassium	ppm	ASTM D5185m	>20	6	7	13
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.1	8.0	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	19.7	21.4
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	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		<1	2	4
Boron	ppm	ASTM D5185m	50	124	135	82
Barium	ppm	ASTM D5185m		5	0	0
Molybdenum	ppm	ASTM D5185m		11	8	19
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	270	426	435	412
Calcium	ppm	ASTM D5185m	1900	1760	1717	1859
Phosphorus	ppm	ASTM D5185m	1000	965	1051	1102
Zinc	ppm	ASTM D5185m	1260	1190	1256	1319
Sulfur	ppm	ASTM D5185m	3400	4439	4065	4040
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	14.6	16.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	9.41	9.01	11.12
Visc @ 100°C	cSt	ASTM D445	15.3	13.8	13.9	13.9



Certificate L2367

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

Sample No. : LP0001399

Lab Number : 06099307

Unique Number : 10897537

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)