



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Area
Store 9 - Marietta

Machine Id
PETERBILT 567 1XPCP4EX9PD810461

Component
Diesel Engine

Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0051501	LEC0050572	LEC0048256
Sample Date		Client Info		03 Jul 2024	29 Apr 2024	11 Mar 2024
Machine Age	mls	Client Info		167642	146000	146461
Oil Age	mls	Client Info		21642	14539	16540
Filter Age	mls	Client Info		21642	14539	16540
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	14	11	19
Chromium	ppm	ASTM D5185m	>4	1	<1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	4	7
Lead	ppm	ASTM D5185m	>45	2	1	<1
Copper	ppm	ASTM D5185m	>85	1	0	1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

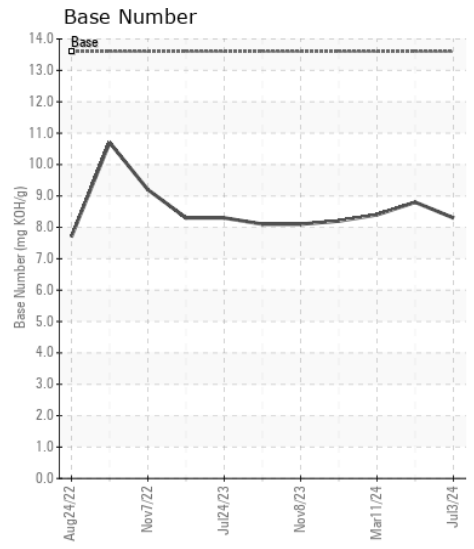
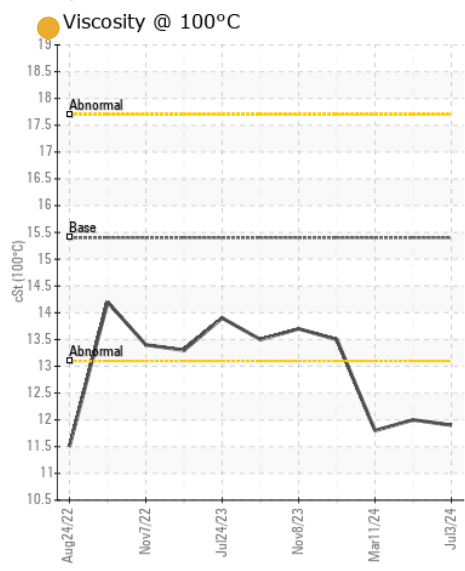
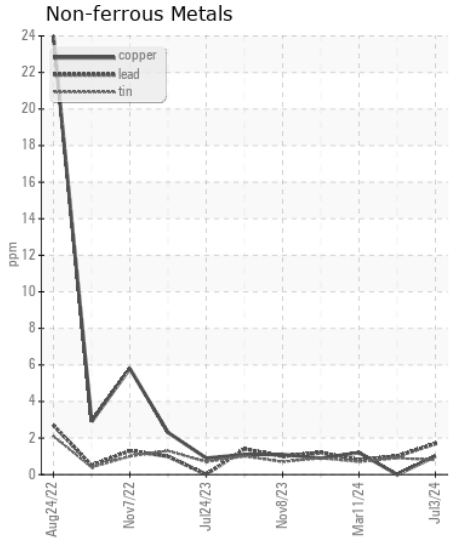
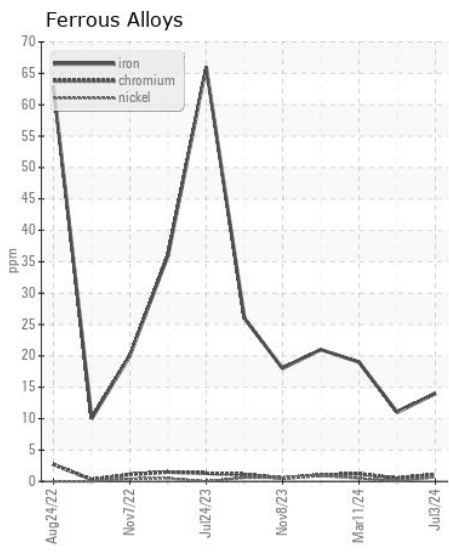
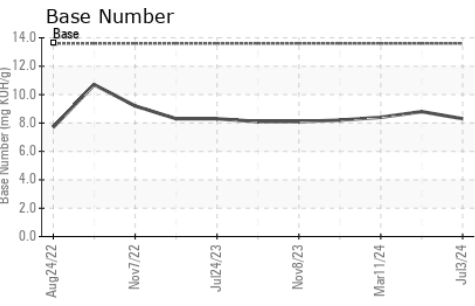
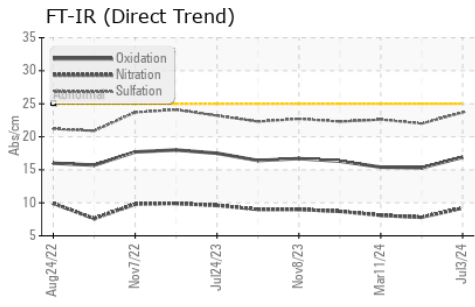
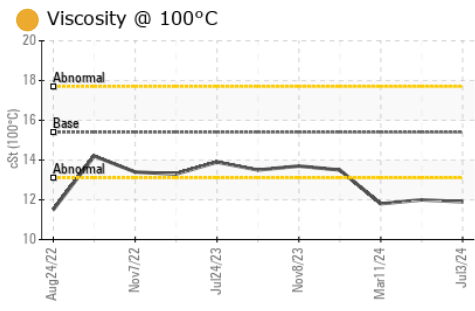
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>120	7	6	8
Potassium	ppm	ASTM D5185m	>20	7	4	8
Fuel		WC Method	>5	<1.0	<1.0	0.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.2	7.8	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	22.0	22.6
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		1	1	0
Boron	ppm	ASTM D5185m		135	170	133
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		169	178	168
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		551	600	542
Calcium	ppm	ASTM D5185m		2086	2247	2209
Phosphorus	ppm	ASTM D5185m		932	993	963
Zinc	ppm	ASTM D5185m		1125	1178	1185
Sulfur	ppm	ASTM D5185m		3228	3818	3437
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	15.3	15.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.8	8.4
Visc @ 100°C	cSt	ASTM D445	15.4	11.9	12.0	11.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0051501 **Received** : 10 Jul 2024
Lab Number : 06232096 **Tested** : 11 Jul 2024
Unique Number : 11115589 **Diagnosed** : 11 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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)