



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[47512]**

Machine Id

**SAKAI 3SV56-10146**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (13 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218618</b>	JR0176116	---
Sample Date		Client Info		<b>18 Jun 2024</b>	14 Jul 2023	---
Machine Age	hrs	Client Info		<b>2390</b>	1907	---
Oil Age	hrs	Client Info		<b>483</b>	500	---
Filter Age	hrs	Client Info		<b>0</b>	500	---
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	>100	<b>20</b>	52	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	8	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>4</b>	20	---
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

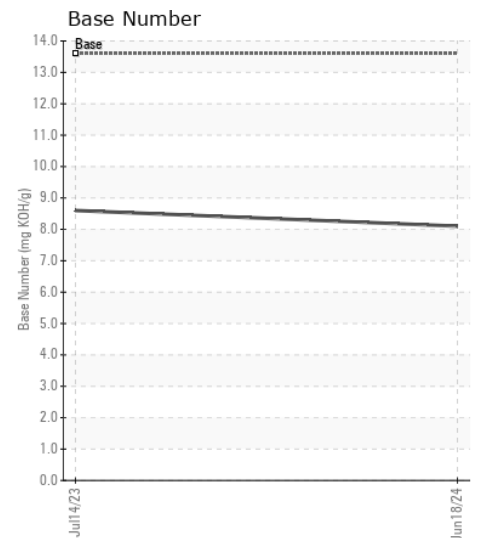
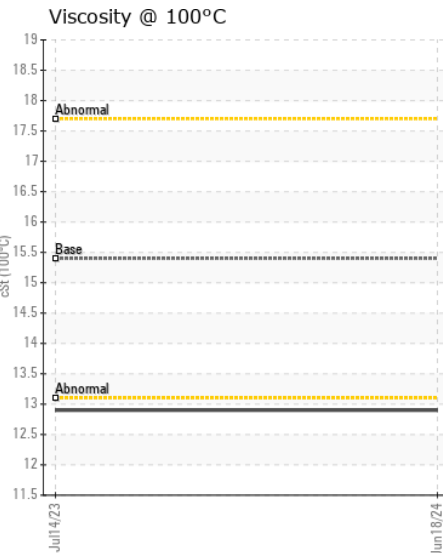
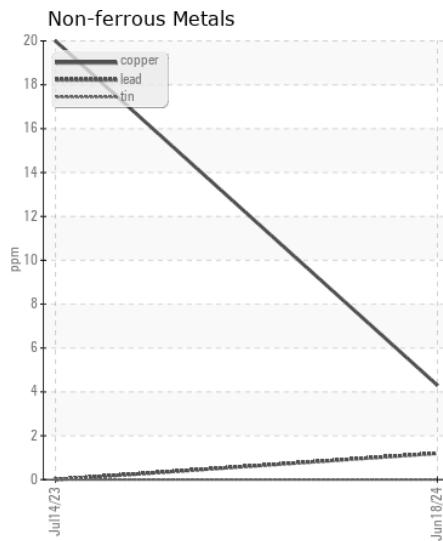
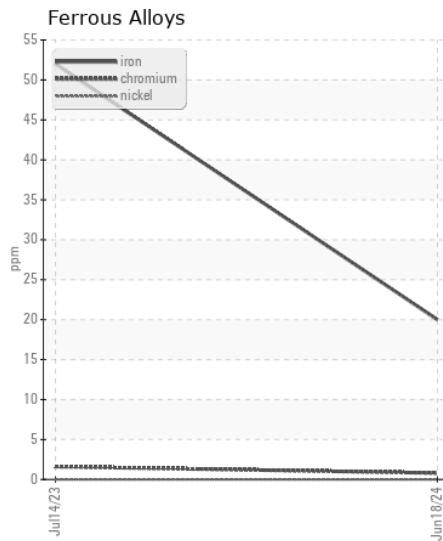
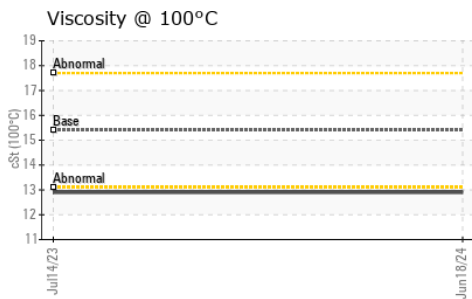
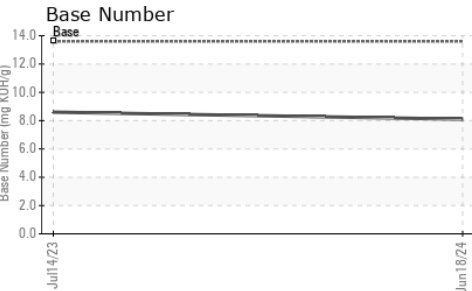
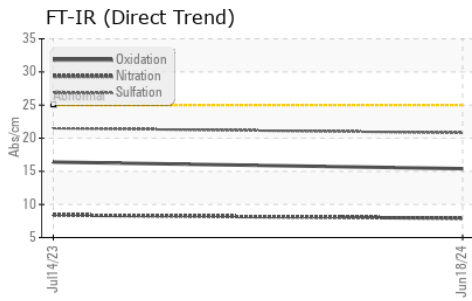
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	4	---
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>7.9</b>	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	21.5	---
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>2</b>	1	---
Boron	ppm	ASTM D5185m		<b>181</b>	228	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>220</b>	242	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>801</b>	840	---
Calcium	ppm	ASTM D5185m		<b>1740</b>	1586	---
Phosphorus	ppm	ASTM D5185m		<b>1019</b>	901	---
Zinc	ppm	ASTM D5185m		<b>1263</b>	1116	---
Sulfur	ppm	ASTM D5185m		<b>3927</b>	3716	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	16.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.1</b>	8.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	12.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218618 **Received** : 20 Jun 2024  
**Lab Number** : 06215643 **Tested** : 21 Jun 2024  
**Unique Number** : 11088507 **Diagnosed** : 21 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**CWS-STRITTMATTER**  
 9102 OWENS DR  
 MANASSAS PARK, VA  
 US 20111

Contact: EDDIE GARRETSON  
 egarretson@strittmattercompanies.com

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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