



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

Machine Id  
**JOHN DEERE 1T0325GKLNJ421445**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225344</b>	JR0181994	---
Sample Date		Client Info		<b>24 Jun 2024</b>	26 Jul 2023	---
Machine Age	hrs	Client Info		<b>808</b>	491	---
Oil Age	hrs	Client Info		<b>400</b>	491	---
Filter Age	hrs	Client Info		<b>400</b>	491	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>33</b>	38	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	6	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>26	<b>26</b>	74	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

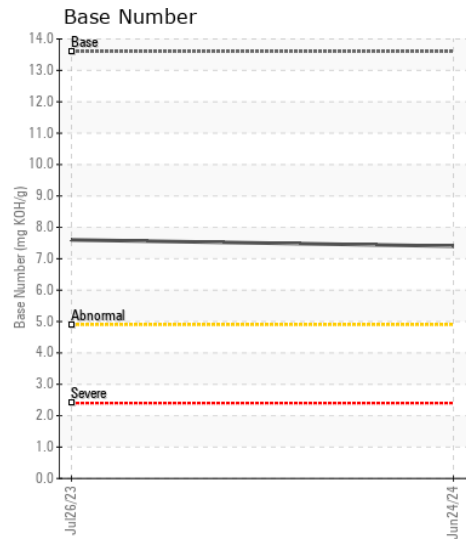
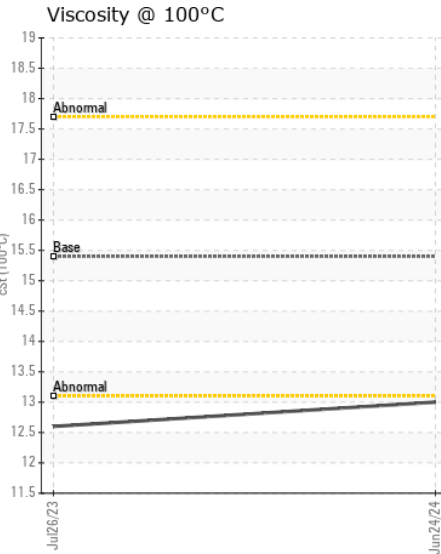
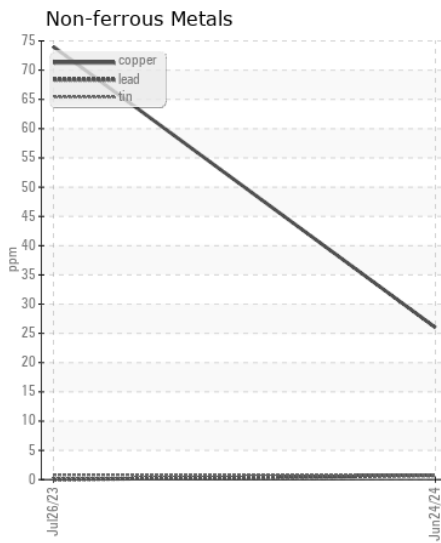
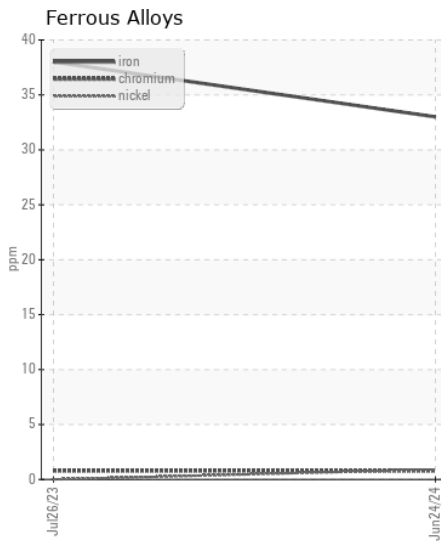
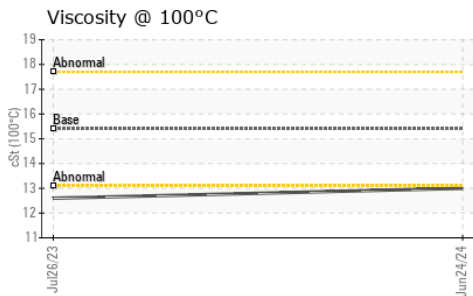
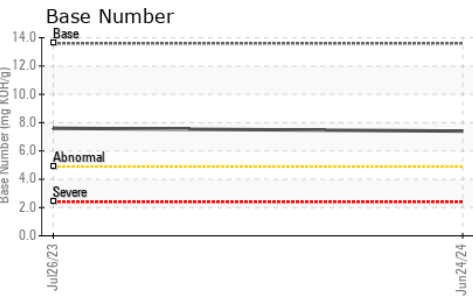
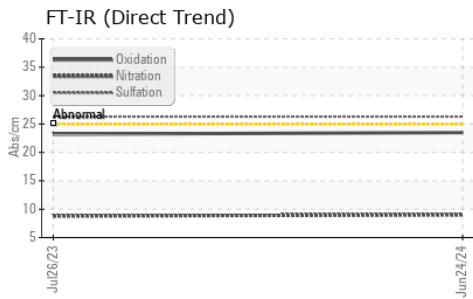
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>18</b>	▲ 42	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	---
Fuel	%	ASTM D3524	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.3</b>	26.3	---
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	>0.21	<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	>31	<b>3</b>	13	---
Boron	ppm	ASTM D5185m		<b>237</b>	213	---
Barium	ppm	ASTM D5185m		<b>3</b>	5	---
Molybdenum	ppm	ASTM D5185m		<b>254</b>	266	---
Manganese	ppm	ASTM D5185m		<b>1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>767</b>	827	---
Calcium	ppm	ASTM D5185m		<b>1401</b>	1843	---
Phosphorus	ppm	ASTM D5185m		<b>770</b>	904	---
Zinc	ppm	ASTM D5185m		<b>1038</b>	1166	---
Sulfur	ppm	ASTM D5185m		<b>2767</b>	3774	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>23.5</b>	23.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	7.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.0</b>	12.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225344 **Received** : 25 Jun 2024  
**Lab Number** : 06219545 **Tested** : 26 Jun 2024  
**Unique Number** : 11097742 **Diagnosed** : 26 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: FuelDilution, TBN )

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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