



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

Machine Id  
**JOHN DEERE 3032E 1LV3032ECLL133677**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- 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		<b>JR0209901</b>	JR0041588	---
Sample Date		Client Info		<b>28 May 2024</b>	25 Aug 2021	---
Machine Age	hrs	Client Info		<b>201</b>	56	---
Oil Age	hrs	Client Info		<b>201</b>	0	---
Filter Age	hrs	Client Info		<b>201</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ATTENTION</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>10</b>	10	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	0	---
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>1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	2	---
Lead	ppm	ASTM D5185m	>26	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>26	<b>3</b>	18	---
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

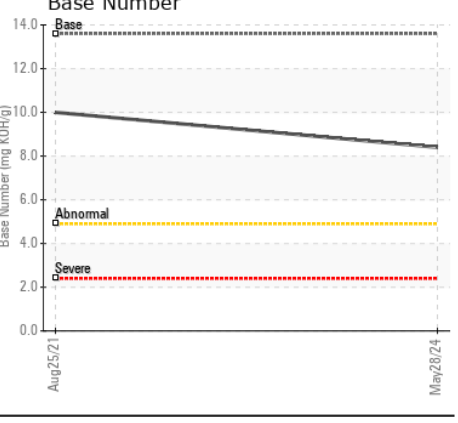
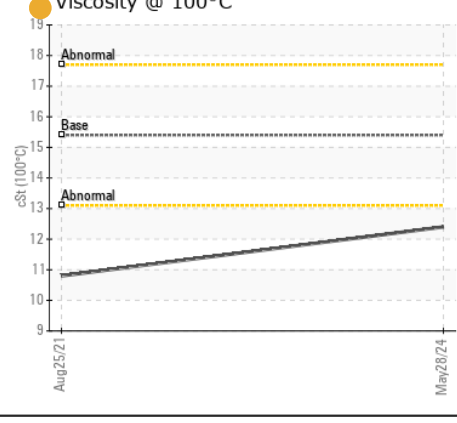
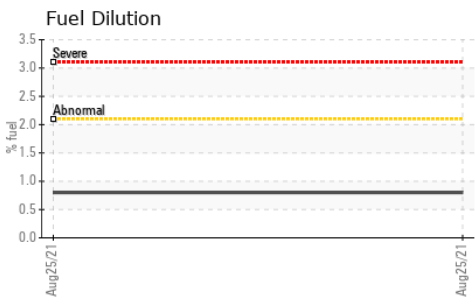
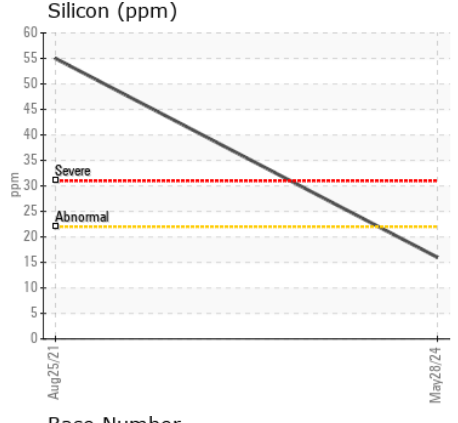
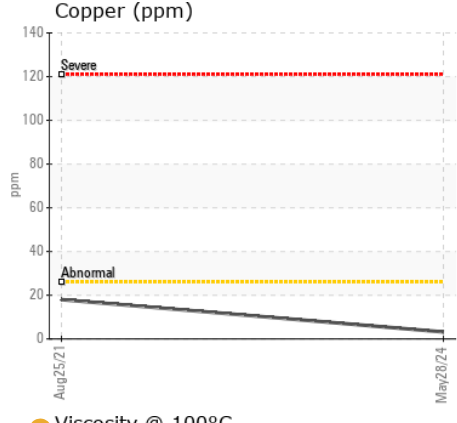
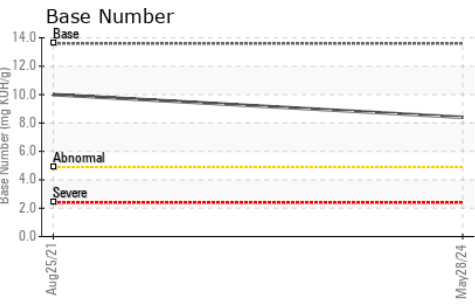
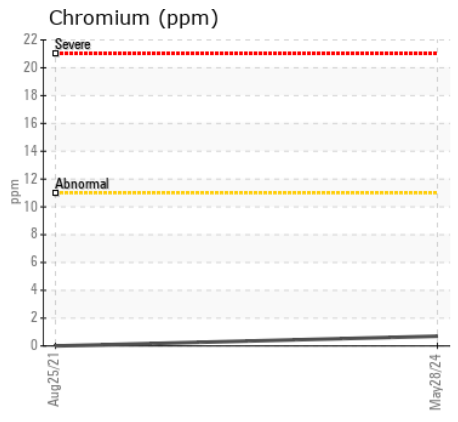
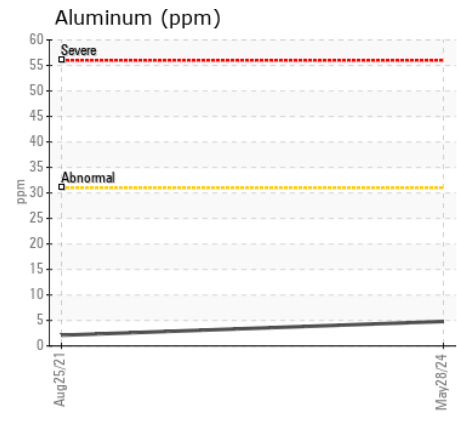
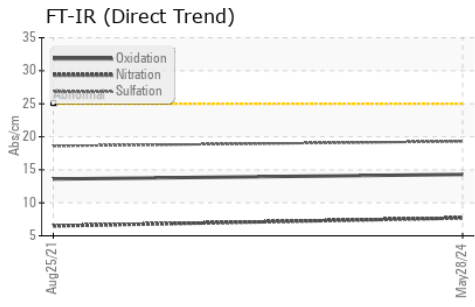
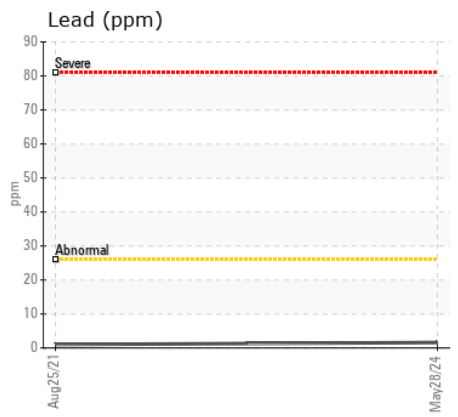
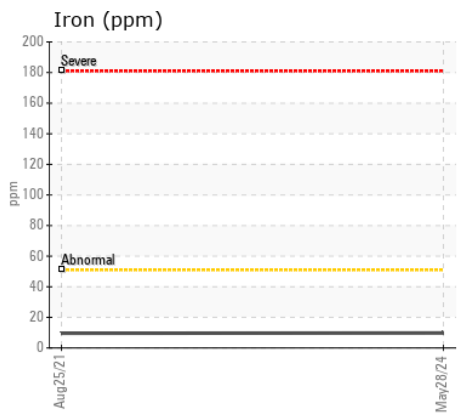
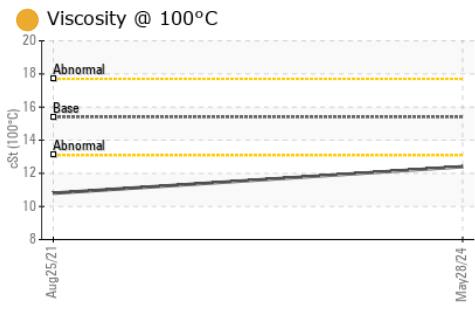
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>16</b>	55	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Fuel	%	ASTM D3524	>2.1	<b>&lt;1.0</b>	0.8	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	6.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.3</b>	18.6	---
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 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	>31	<b>3</b>	13	---
Boron	ppm	ASTM D5185m		<b>252</b>	265	---
Barium	ppm	ASTM D5185m		<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m		<b>235</b>	214	---
Manganese	ppm	ASTM D5185m		<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>749</b>	589	---
Calcium	ppm	ASTM D5185m		<b>1386</b>	1887	---
Phosphorus	ppm	ASTM D5185m		<b>878</b>	894	---
Zinc	ppm	ASTM D5185m		<b>1019</b>	1012	---
Sulfur	ppm	ASTM D5185m		<b>3466</b>	3050	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.3</b>	13.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.4</b>	10	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.4</b>	10.8	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209901 **Received** : 29 May 2024  
**Lab Number** : 06193612 **Tested** : 31 May 2024  
**Unique Number** : 11050364 **Diagnosed** : 31 May 2024 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: FuelDilution, PercentFuel, TBN )

**JRE - WILKESBORO**  
 288 WESTGATE DRIVE  
 WILKESBORO, NC  
 US 28697  
 Contact: BUTCH JANES  
 bjanes@jamesriverequipment.com  
 T: (336)973-8201  
 F: (336)973-8496

Certificate L2367  
 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)