



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

Machine Id  
**JOHN DEERE 365**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0217848</b>	JR0126442	---
Sample Date		Client Info		<b>21 Jun 2024</b>	07 Apr 2022	---
Machine Age	hrs	Client Info		<b>4995</b>	1785	---
Oil Age	hrs	Client Info		<b>500</b>	0	---
Filter Age	hrs	Client Info		<b>500</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>26</b>	31	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	4	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>26	<b>2</b>	6	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

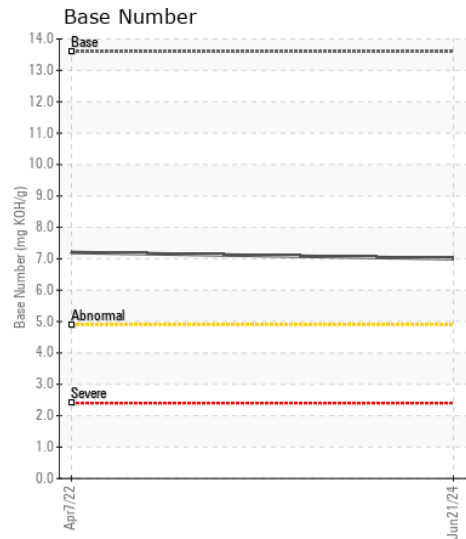
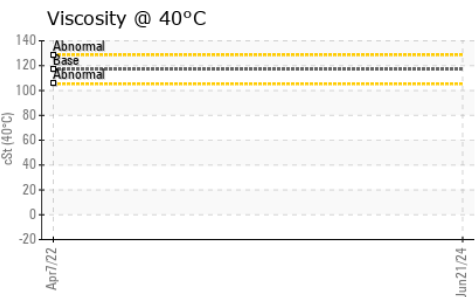
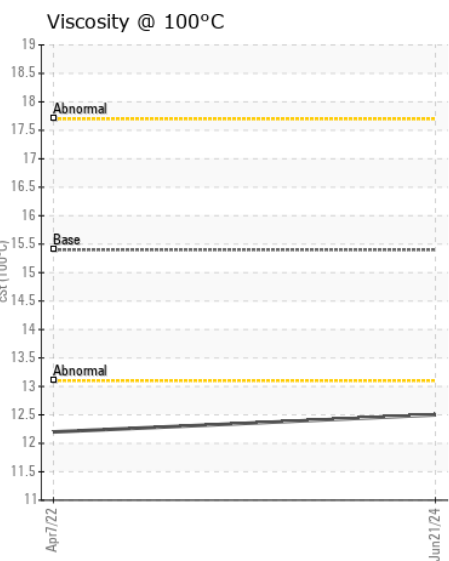
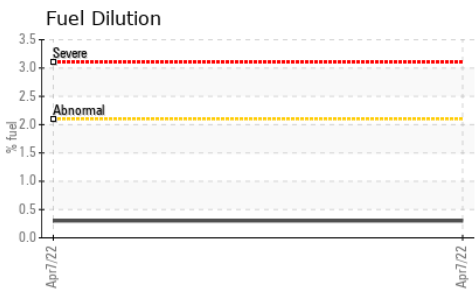
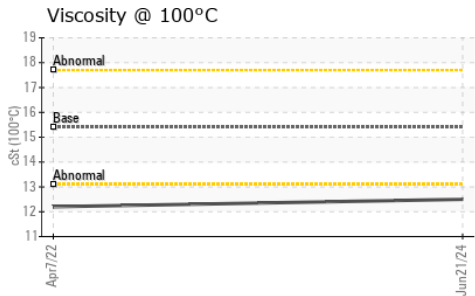
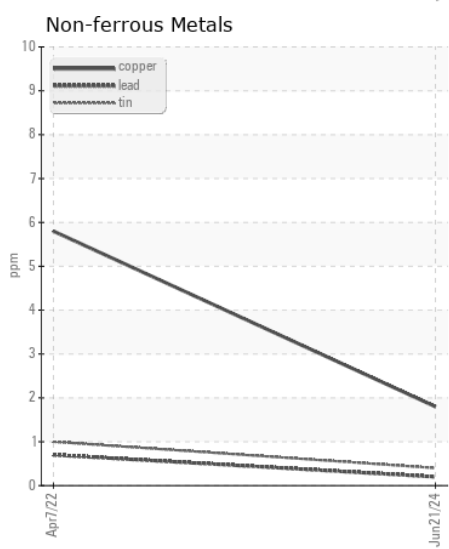
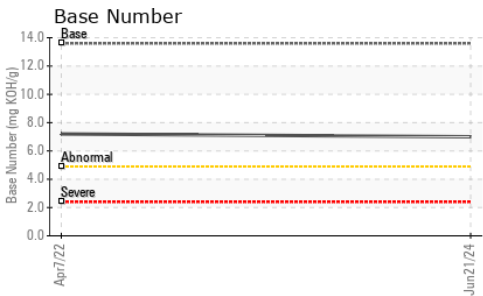
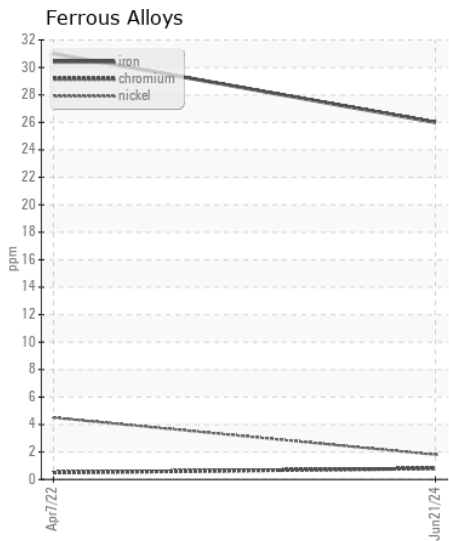
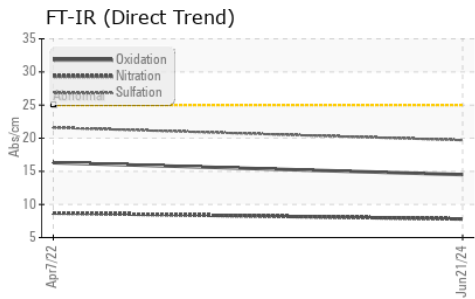
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>14</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	6	---
Fuel	%	ASTM D3524	>2.1	<b>&lt;1.0</b>	0.3	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	8.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	21.6	---
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 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>7</b>	2	---
Boron	ppm	ASTM D5185m		<b>62</b>	87	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>24</b>	32	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>131</b>	141	---
Calcium	ppm	ASTM D5185m		<b>2348</b>	2349	---
Phosphorus	ppm	ASTM D5185m		<b>973</b>	995	---
Zinc	ppm	ASTM D5185m		<b>1228</b>	1131	---
Sulfur	ppm	ASTM D5185m		<b>4197</b>	3026	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	16.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.0</b>	7.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.5</b>	12.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217848 **Received** : 01 Jul 2024  
**Lab Number** : 06224298 **Tested** : 02 Jul 2024  
**Unique Number** : 11102495 **Diagnosed** : 02 Jul 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, KV40, TBN )

**TOTAL DEVELOPMENT SOLUTIONS LLC**  
 7805 PROGRESS CT  
 GAINESVILLE, VA  
 US 20155  
 Contact: JOE SEALE

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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