



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



Machine Id  
**JOHN DEERE 544K 1DW544KPCEE661679**

Component  
**Hydraulic System**

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0205059</b>	JRMC393695	JRMC394808
Sample Date		Client Info		<b>10 Apr 2024</b>	29 May 2019	04 Oct 2018
Machine Age	hrs	Client Info		<b>10581</b>	4979	4493
Oil Age	hrs	Client Info		<b>0</b>	0	493
Filter Age	hrs	Client Info		<b>0</b>	0	493
Oil Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>21</b>	18	17
Iron	ppm	ASTM D5185m	>71	<b>35</b>	12	8
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>11	<b>3</b>	6	4
Lead	ppm	ASTM D5185m	>13	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>21	<b>9</b>	3	2
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

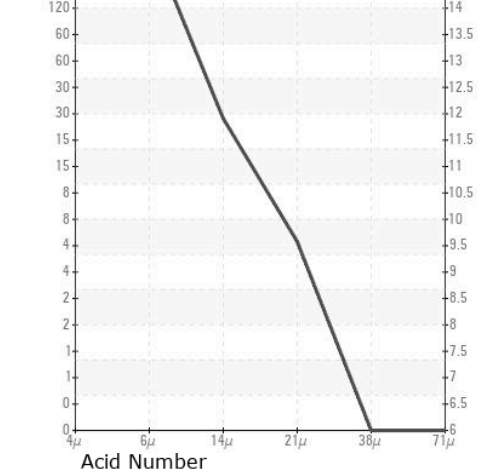
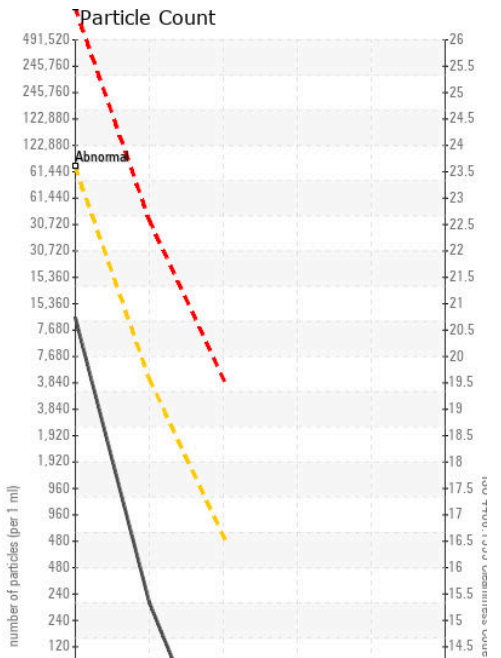
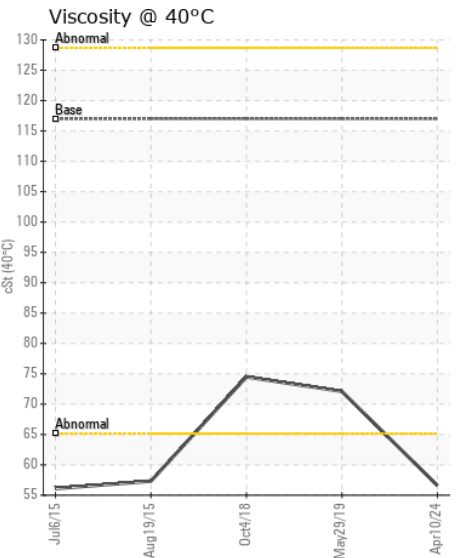
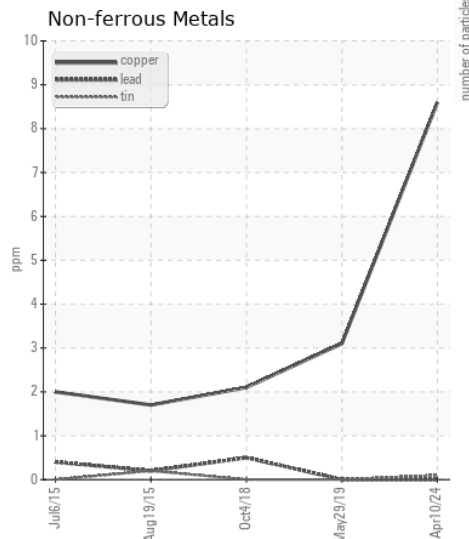
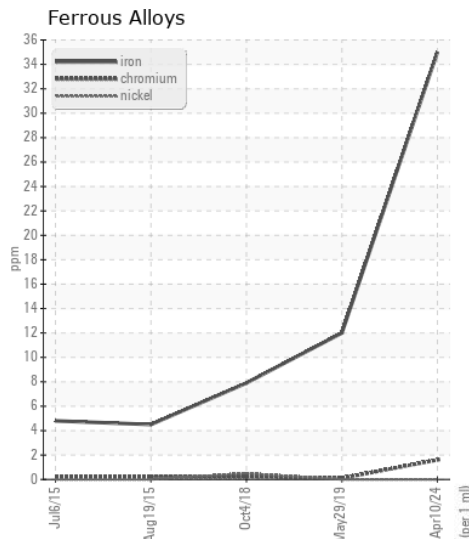
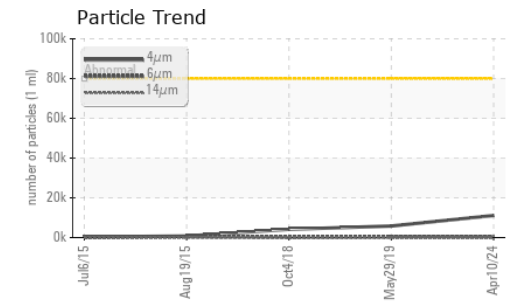
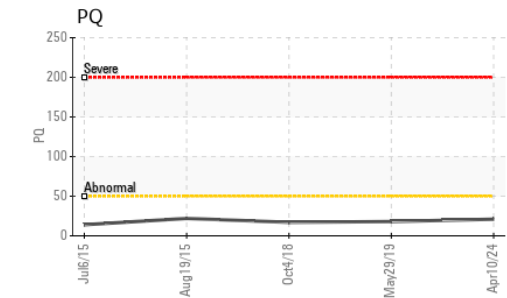
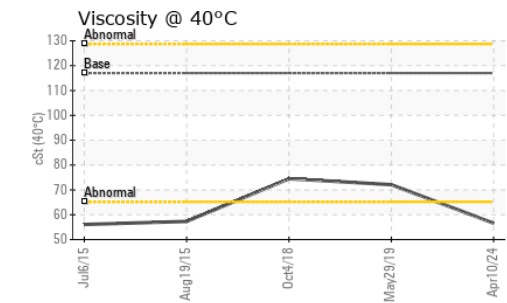
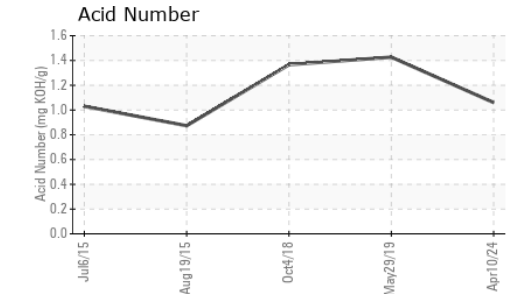
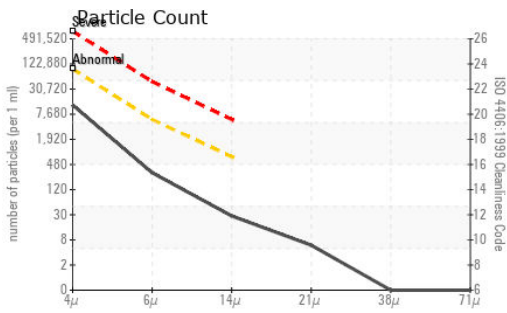
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>8</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>11121</b>	5821	4151
Particles >6µm		ASTM D7647	>5000	<b>268</b>	292	122
Particles >14µm		ASTM D7647	>640	<b>25</b>	22	8
Particles >21µm		ASTM D7647	>160	<b>5</b>	8	3
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>21/15/12</b>	20/15/12	19/14/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>15</b>	10	8
Boron	ppm	ASTM D5185m		<b>64</b>	169	164
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>49</b>	163	151
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>223</b>	544	539
Calcium	ppm	ASTM D5185m		<b>2877</b>	1804	1751
Phosphorus	ppm	ASTM D5185m		<b>955</b>	886	838
Zinc	ppm	ASTM D5185m		<b>1145</b>	1060	1034
Sulfur	ppm	ASTM D5185m		<b>3802</b>	3922	3401
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.06</b>	1.427	1.366
Visc @ 40°C	cSt	ASTM D445	117	<b>56.6</b>	72.1	74.49



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0205059 **Received** : 11 Apr 2024  
**Lab Number** : 06145774 **Tested** : 12 Apr 2024  
**Unique Number** : 10975852 **Diagnosed** : 14 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)