



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



Machine Id  
**JOHN DEERE 700K 1T0700KXCDE250356**

Component  
**Hydraulic System**

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>JR0199899</b>	JR0124166	JR0019321
Sample Date		Client Info		<b>27 Feb 2024</b>	21 Apr 2022	09 Aug 2019
Machine Age	hrs	Client Info		<b>5430</b>	4942	4475
Oil Age	hrs	Client Info		<b>0</b>	1000	500
Filter Age	hrs	Client Info		<b>0</b>	1000	500
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>16</b>	17	18
Iron	ppm	ASTM D5185m	>23	<b>6</b>	6	4
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	4	3
Lead	ppm	ASTM D5185m	>28	<b>1</b>	1	<1
Copper	ppm	ASTM D5185m	>51	<b>18</b>	37	18
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

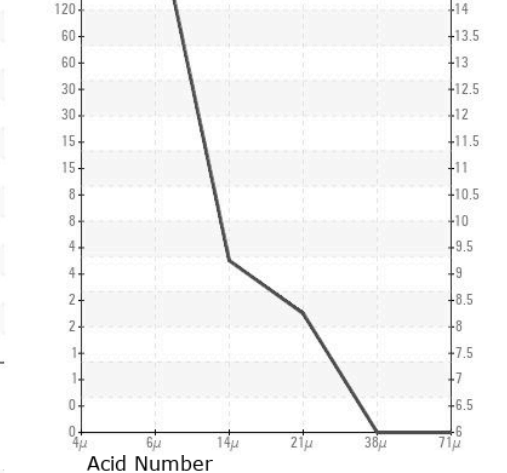
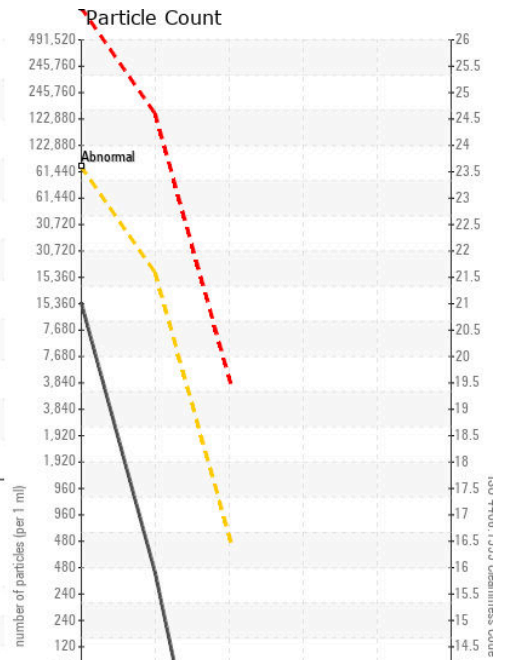
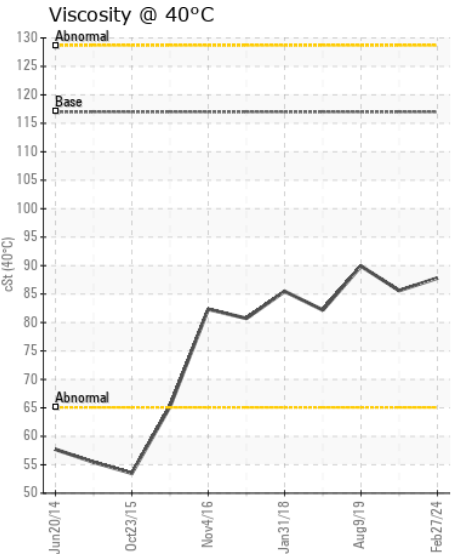
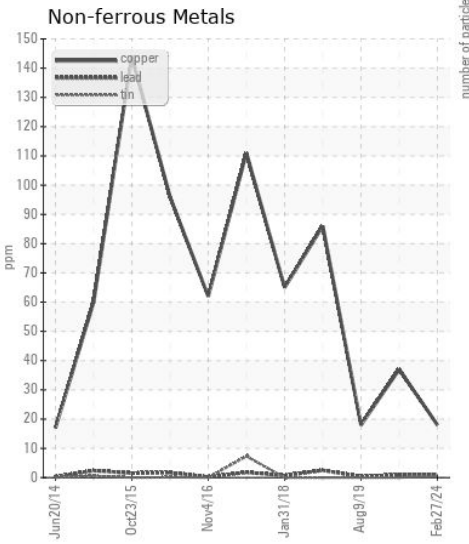
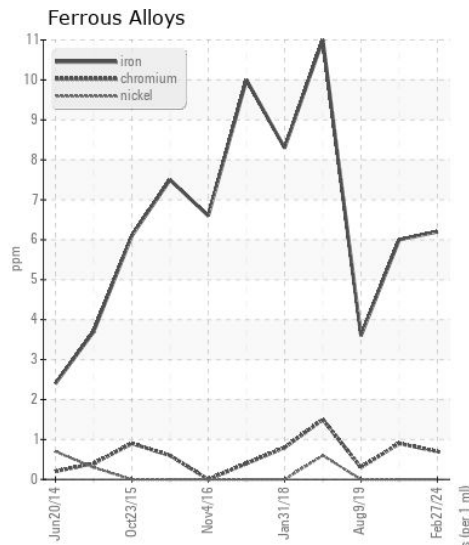
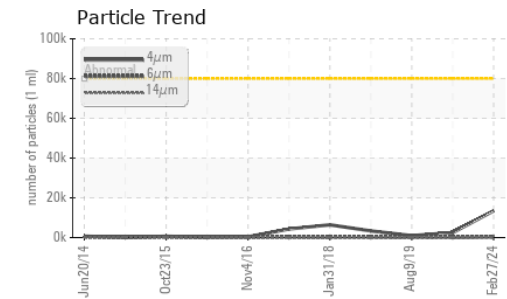
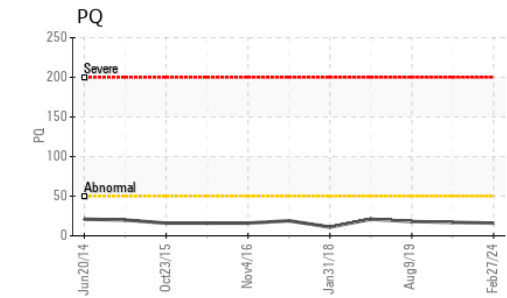
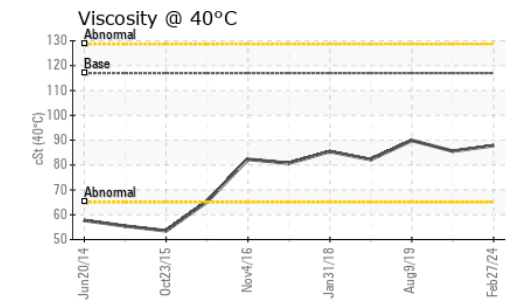
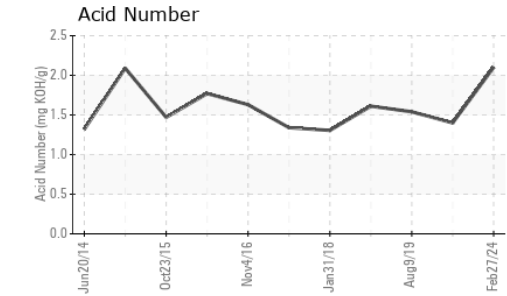
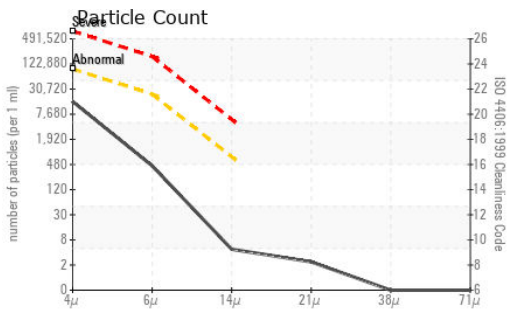
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>9</b>	8	8
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	1
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>13480</b>	2464	977
Particles >6µm		ASTM D7647	>20000	<b>393</b>	59	77
Particles >14µm		ASTM D7647	>640	<b>4</b>	6	8
Particles >21µm		ASTM D7647	>160	<b>2</b>	2	3
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>21/16/9</b>	18/13/10	17/13/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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>2</b>	<1	1
Boron	ppm	ASTM D5185m		<b>333</b>	364	376
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>96</b>	142	144
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>466</b>	583	578
Calcium	ppm	ASTM D5185m		<b>1374</b>	1378	1380
Phosphorus	ppm	ASTM D5185m		<b>886</b>	733	729
Zinc	ppm	ASTM D5185m		<b>1019</b>	878	862
Sulfur	ppm	ASTM D5185m		<b>2898</b>	2216	2222
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.10</b>	1.40	1.540
Visc @ 40°C	cSt	ASTM D445	117	<b>87.8</b>	85.6	89.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199899 **Received** : 28 Feb 2024  
**Lab Number** : 06102889 **Tested** : 29 Feb 2024  
**Unique Number** : 10901119 **Diagnosed** : 01 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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