



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



Area  
**[W64486]**  
 Machine Id  
**JOHN DEERE 700K 1T0700KXKKF366726**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (20 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W64486 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0204346</b>	JR0177545	JR0142283
Sample Date		Client Info		<b>21 Feb 2024</b>	04 Aug 2023	09 Mar 2023
Machine Age	hrs	Client Info		<b>5509</b>	5026	4508
Oil Age	hrs	Client Info		<b>5509</b>	1578	500
Filter Age	hrs	Client Info		<b>5509</b>	0	500
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>6</b>	16	14
Iron	ppm	ASTM D5185m	>23	<b>2</b>	5	5
Chromium	ppm	ASTM D5185m	>9	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	3	<1
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>51	<b>4</b>	3	3
Tin	ppm	ASTM D5185m	>5	<b>0</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

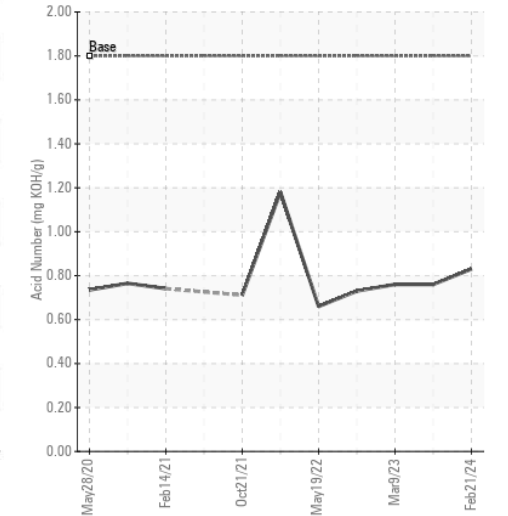
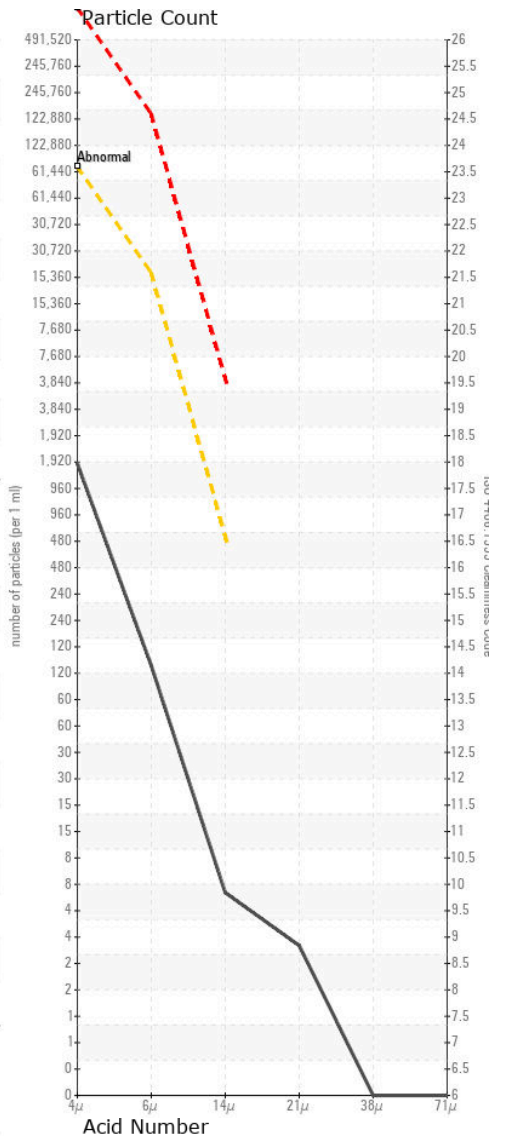
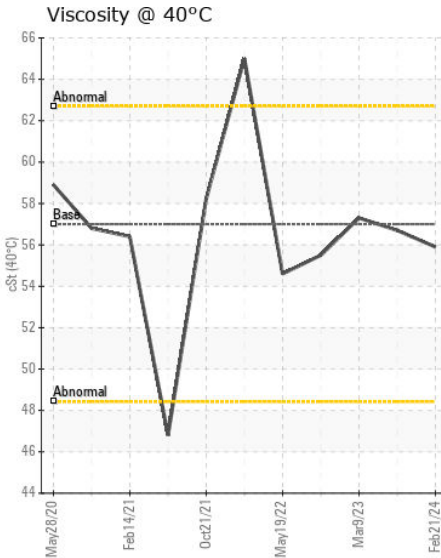
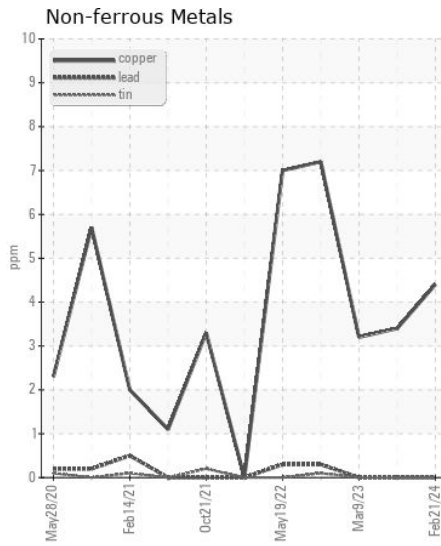
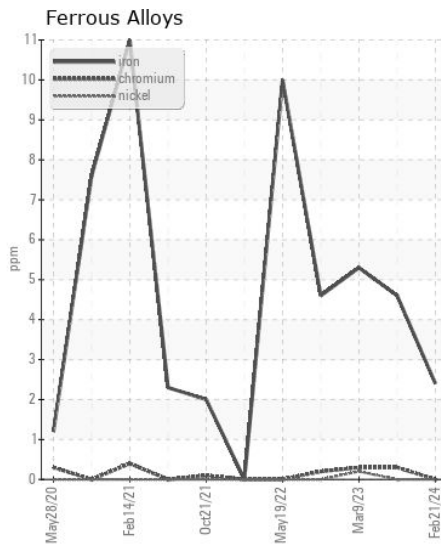
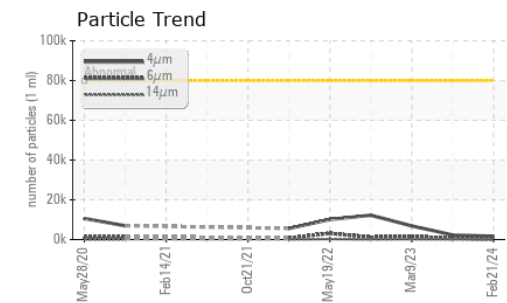
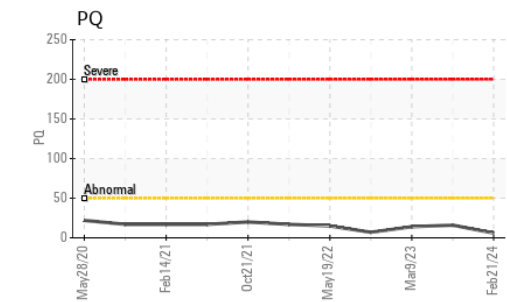
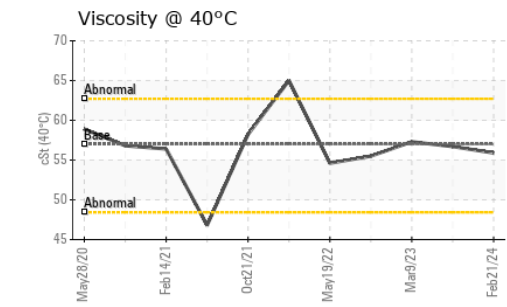
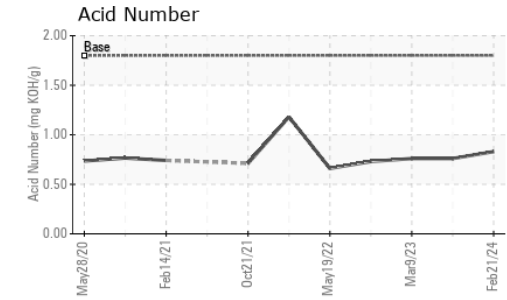
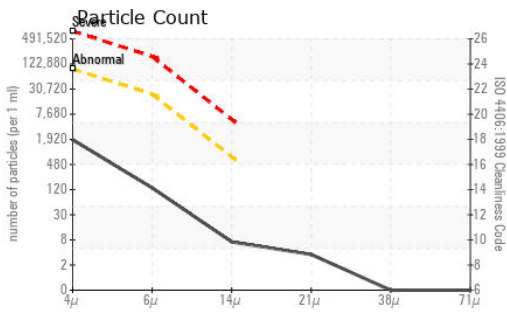
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>5</b>	4	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>1652</b>	2311	6873
Particles >6µm		ASTM D7647	>20000	<b>117</b>	639	1603
Particles >14µm		ASTM D7647	>640	<b>6</b>	67	107
Particles >21µm		ASTM D7647	>160	<b>3</b>	15	22
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)	>23/21/16	<b>18/14/10</b>	18/16/13	20/18/14
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>0</b>	0	1
Boron	ppm	ASTM D5185m	6	<b>4</b>	4	0
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>3</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	145	<b>27</b>	18	1
Calcium	ppm	ASTM D5185m	3570	<b>484</b>	130	82
Phosphorus	ppm	ASTM D5185m	1290	<b>673</b>	650	591
Zinc	ppm	ASTM D5185m	1640	<b>857</b>	853	780
Sulfur	ppm	ASTM D5185m		<b>1722</b>	1965	1829
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	<b>0.83</b>	0.76	0.76
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.9</b>	56.7	57.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204346 **Received** : 23 Feb 2024  
**Lab Number** : 06099081 **Tested** : 28 Feb 2024  
**Unique Number** : 10897311 **Diagnosed** : 28 Feb 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FT-IR, KV100, PQ )

**JRE - CHARLOTTE**  
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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)