



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



Area  
**[RJ SMITH]**  
Machine Id  
**JOHN DEERE 644K 1DW644KZLDE656661**  
Component  
**Transmission (Manual)**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218411</b>	JR0123930	JR0040759
Sample Date		Client Info		<b>11 Jun 2024</b>	06 Jun 2022	29 Apr 2020
Machine Age	hrs	Client Info		<b>7978</b>	6437	5829
Oil Age	hrs	Client Info		<b>0</b>	500	1800
Filter Age	hrs	Client Info		<b>0</b>	500	1800
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>20</b>	23	20
Iron	ppm	ASTM D5185m	>200	<b>14</b>	18	20
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>225	<b>23</b>	19	16
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	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

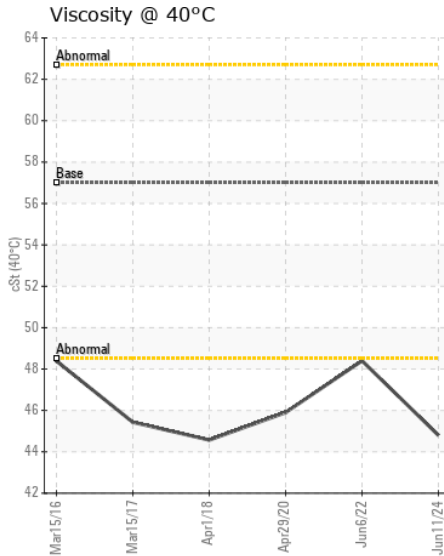
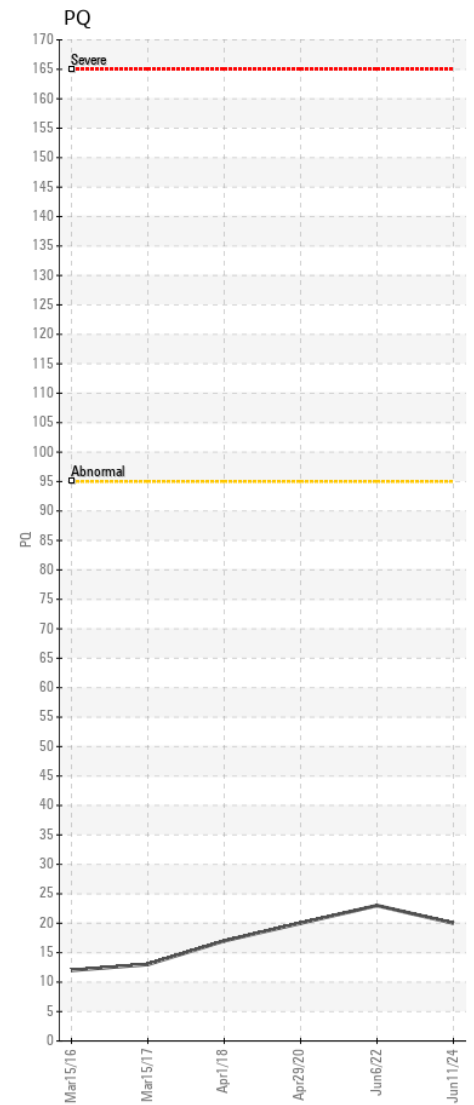
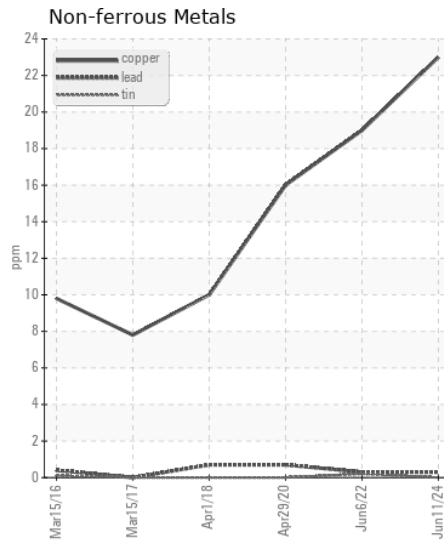
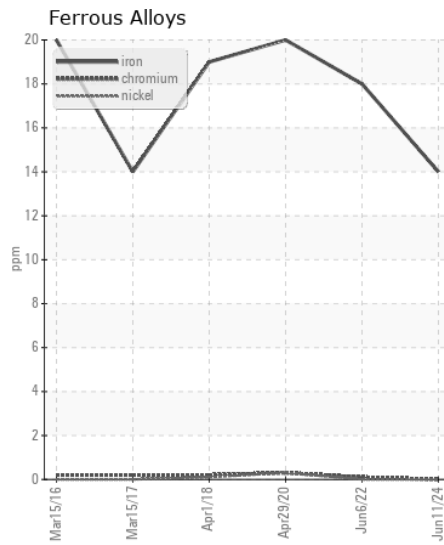
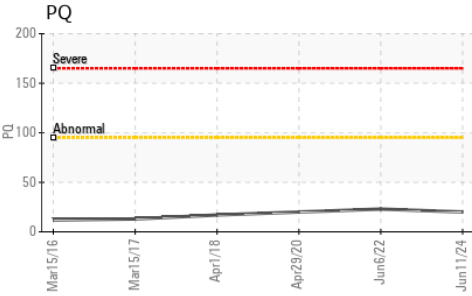
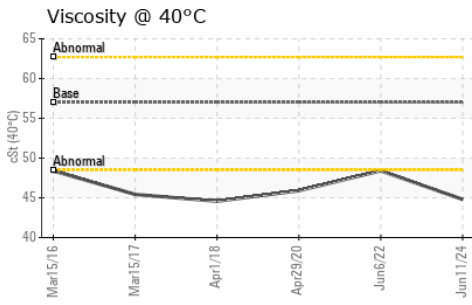
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>4</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
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	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>4</b>	1	6
Boron	ppm	ASTM D5185m	6	<b>2</b>	2	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	2
Magnesium	ppm	ASTM D5185m	145	<b>72</b>	88	104
Calcium	ppm	ASTM D5185m	3570	<b>3290</b>	3245	3970
Phosphorus	ppm	ASTM D5185m	1290	<b>1104</b>	981	1085
Zinc	ppm	ASTM D5185m	1640	<b>1295</b>	1212	1367
Sulfur	ppm	ASTM D5185m		<b>4420</b>	3429	3171
Visc @ 40°C	cSt	ASTM D445	57.0	<b>44.8</b>	48.4	45.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218411 **Received** : 20 Jun 2024  
**Lab Number** : 06215953 **Tested** : 24 Jun 2024  
**Unique Number** : 11088817 **Diagnosed** : 24 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**R.J. SMITH**  
 1711 REYMET RD  
 RICHMOND, VA  
 US 23237  
 Contact: KIRBY MAITLAND

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)

T: (804)283-6426  
 F: (804)513-2148