



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

Area

**[W50190]**

Machine Id

**JOHN DEERE 844K 1DW844KAEJF688182**

Component

**Transmission (Manual)**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0180756</b>	JR0165982	JR0179110
Sample Date		Client Info		<b>28 Feb 2024</b>	12 Jan 2024	16 Oct 2023
Machine Age	hrs	Client Info		<b>8836</b>	8426	7945
Oil Age	hrs	Client Info		<b>1000</b>	0	0
Filter Age	hrs	Client Info		<b>410</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

### WEAR

Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

PQ		ASTM D8184	>95	<b>▲ 163</b>	20	19
Iron	ppm	ASTM D5185m	>200	<b>▲ 258</b>	33	57
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>225	<b>47</b>	6	13
Tin	ppm	ASTM D5185m	>10	<b>4</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

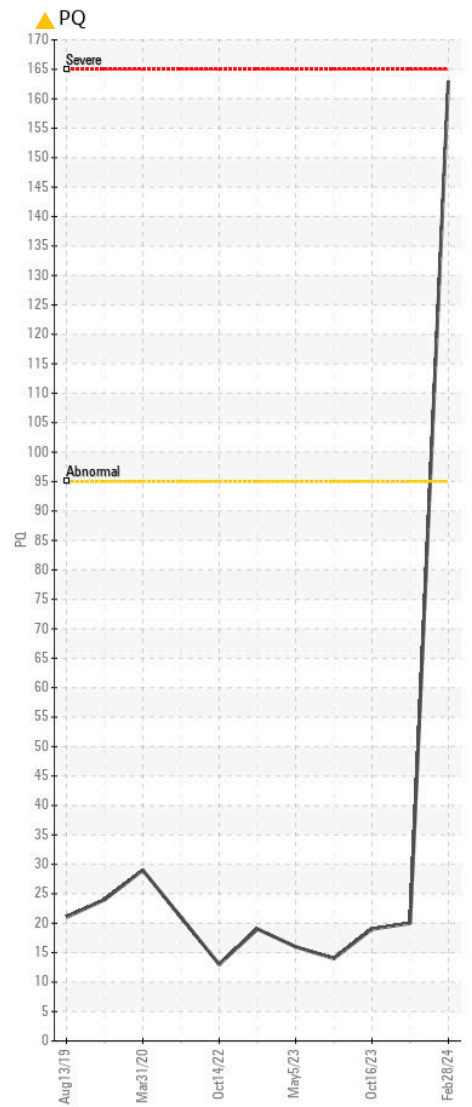
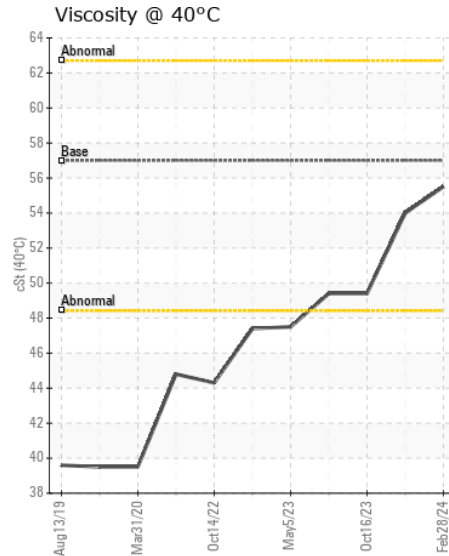
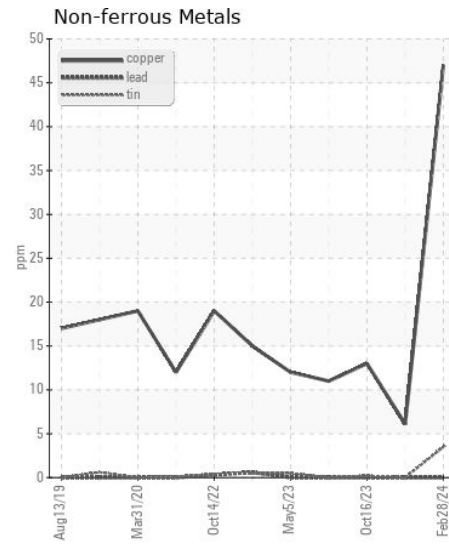
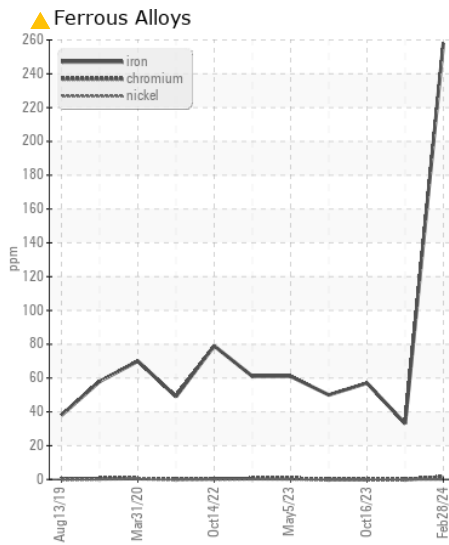
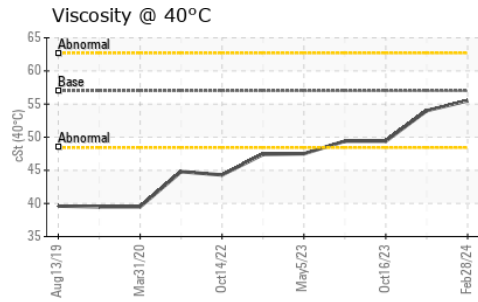
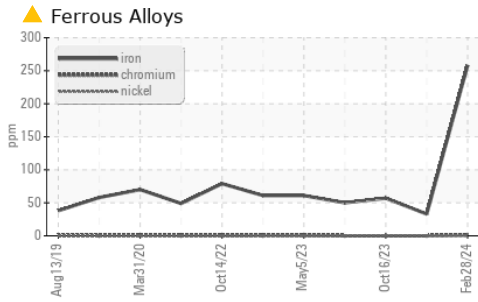
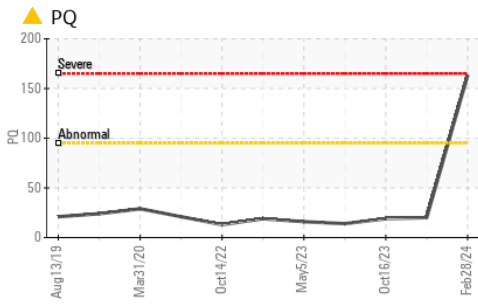
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>11</b>	8	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	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>&lt;1</b>	2	4
Boron	ppm	ASTM D5185m	6	<b>56</b>	55	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>83</b>	59	99
Calcium	ppm	ASTM D5185m	3570	<b>3383</b>	3219	3102
Phosphorus	ppm	ASTM D5185m	1290	<b>1141</b>	968	1016
Zinc	ppm	ASTM D5185m	1640	<b>1284</b>	1275	1171
Sulfur	ppm	ASTM D5185m		<b>6062</b>	5313	3213
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.5</b>	54.0	49.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0180756  
**Lab Number** : 06106325  
**Unique Number** : 10909822  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 01 Mar 2024  
**Tested** : 04 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Jonathan Hester

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005

Contact: DAVID ZIEG  
 dzieg@jamesriverequipment.com

T: (804)798-6001  
 F: (804)798-0292

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)