



Machine Id  
**JOHN DEERE 750K 1T0750KXHDE250610**  
Component  
**Right Outer Final Drive**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0087907</b>	JR0029886	JRMC438727
Sample Date		Client Info		<b>06 Aug 2021</b>	14 Jan 2020	29 Mar 2018
Machine Age	hrs	Client Info		<b>5948</b>	5174	4431
Oil Age	hrs	Client Info		<b>0</b>	0	431
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	SEVERE	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>468</b>	438	39
Iron	ppm	ASTM D5185m	>750	<b>750</b>	▲ 731	66
Chromium	ppm	ASTM D5185m	>9	<b>7</b>	8	1
Nickel	ppm	ASTM D5185m		<b>8</b>	8	<1
Titanium	ppm	ASTM D5185m		<b>4</b>	4	0
Silver	ppm	ASTM D5185m		<b>2</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	● <b>26</b>	● 56	5
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>2</b>	2	<1
Tin	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

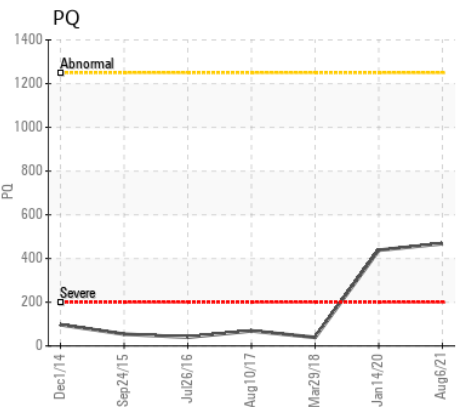
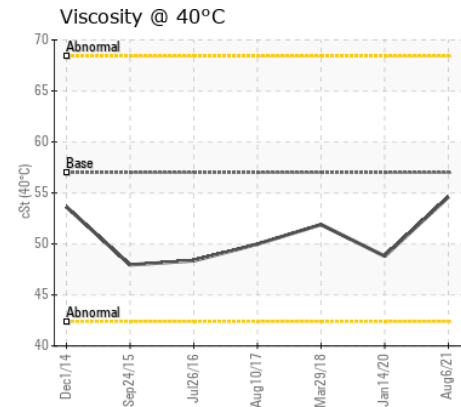
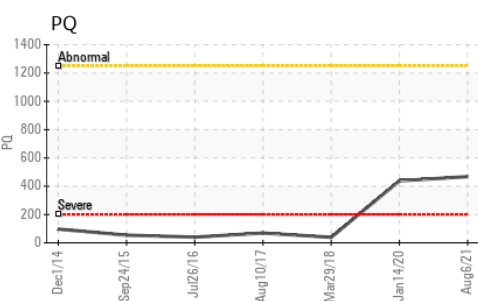
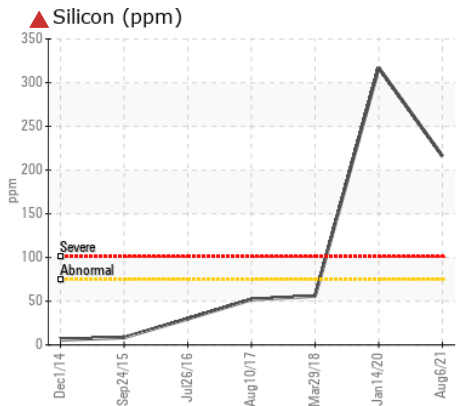
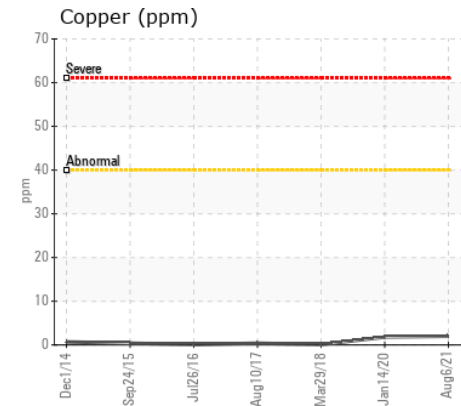
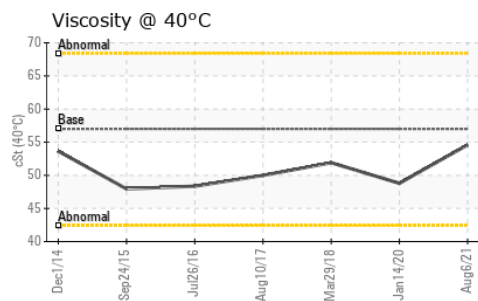
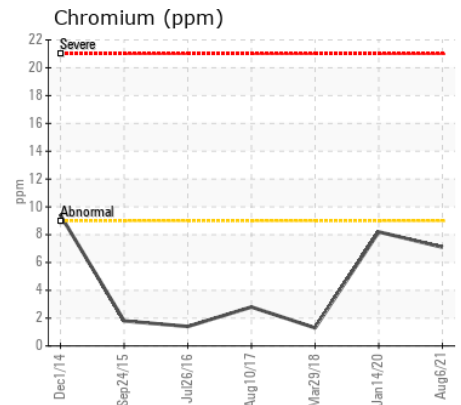
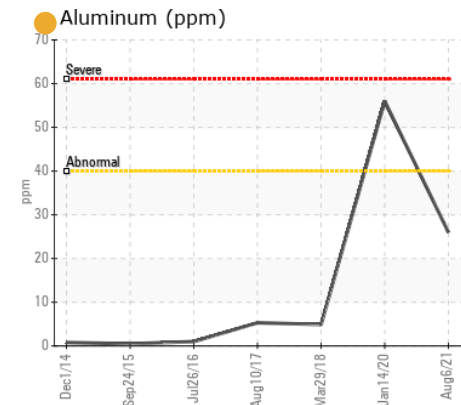
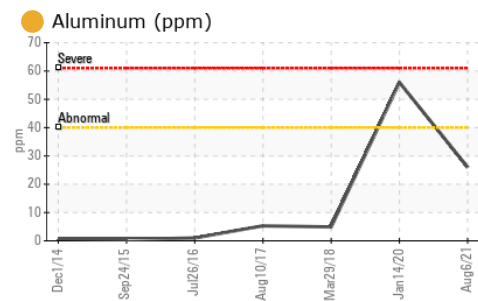
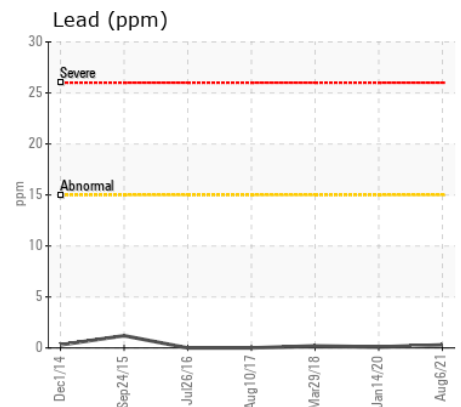
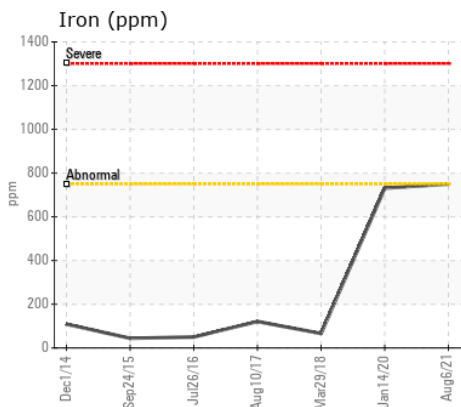
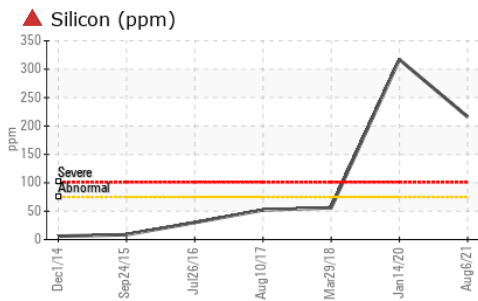
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ <b>216</b>	▲ 317	56
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	16	4
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	4	2
Boron	ppm	ASTM D5185m	6	<b>8</b>	7	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>6</b>	6	1
Magnesium	ppm	ASTM D5185m	145	<b>101</b>	100	112
Calcium	ppm	ASTM D5185m	3570	<b>3699</b>	3413	3739
Phosphorus	ppm	ASTM D5185m	1290	<b>1025</b>	997	1113
Zinc	ppm	ASTM D5185m	1640	<b>1191</b>	1134	1210
Sulfur	ppm	ASTM D5185m		<b>3191</b>	4252	3451
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.6</b>	48.8	51.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0087907 **Received** : 11 Aug 2021  
**Lab Number** : 05324960 **Tested** : 12 Aug 2021  
**Unique Number** : 9618957 **Diagnosed** : 13 Aug 2021 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: PQ )

**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)