



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



Machine Id  
**JOHN DEERE 850K 1T0850KXTEE256742**  
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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0225166</b>	JR0061746	JR0039026
Sample Date		Client Info		<b>16 Jul 2024</b>	09 Sep 2020	05 Mar 2020
Machine Age	hrs	Client Info		<b>11057</b>	6619	6044
Oil Age	hrs	Client Info		<b>0</b>	500	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	ABNORMAL

### WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	<b>446</b>	397	356
Iron	ppm	ASTM D5185m	>750	<b>▲ 4330</b>	503	660
Chromium	ppm	ASTM D5185m	>9	<b>▲ 30</b>	4	5
Nickel	ppm	ASTM D5185m	>10	<b>▲ 20</b>	4	5
Titanium	ppm	ASTM D5185m		<b>45</b>	2	4
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>● 669</b>	● 22	● 56
Lead	ppm	ASTM D5185m	>15	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>40	<b>8</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>2</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

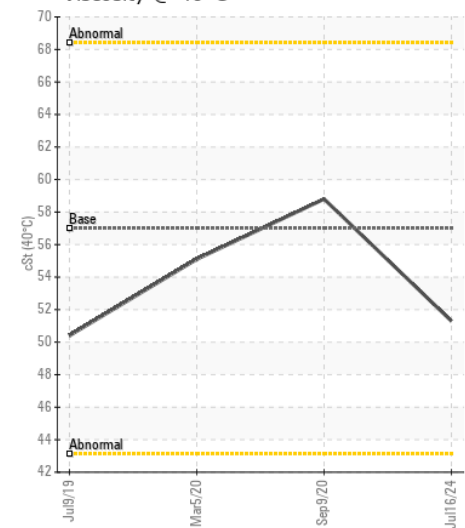
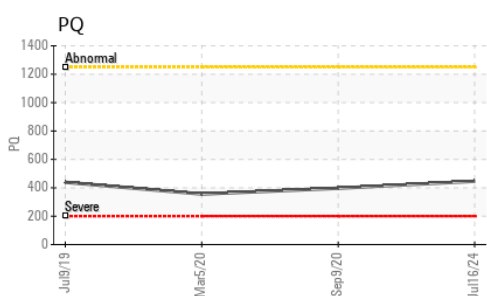
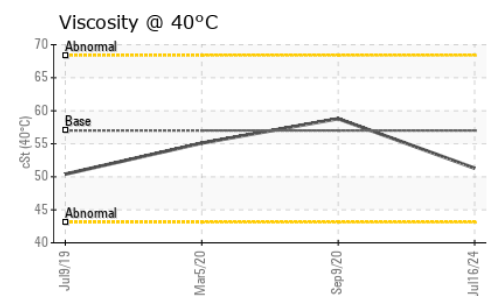
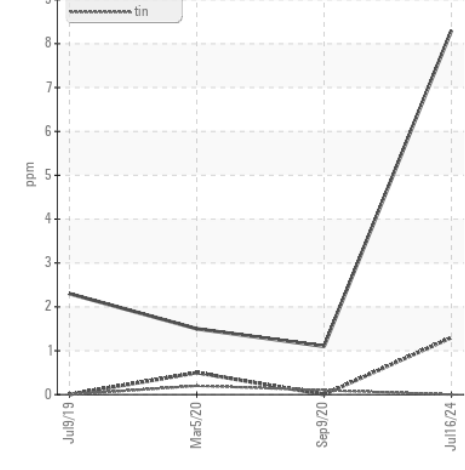
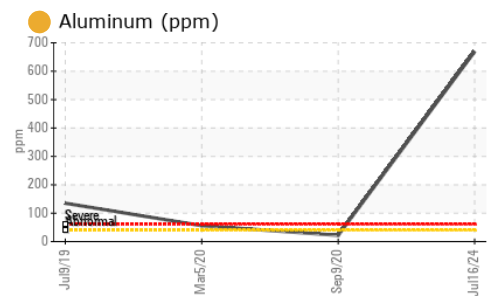
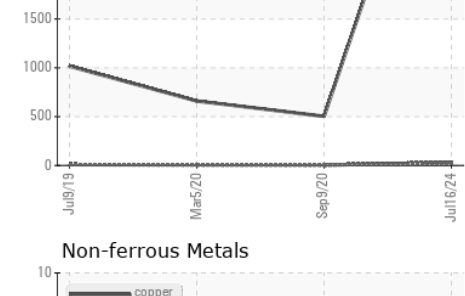
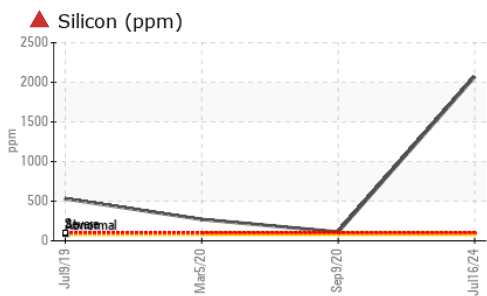
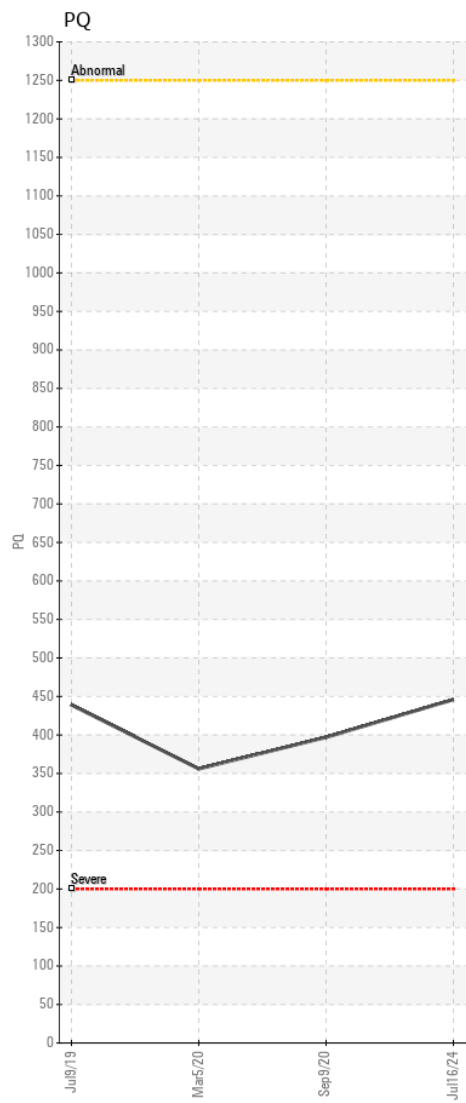
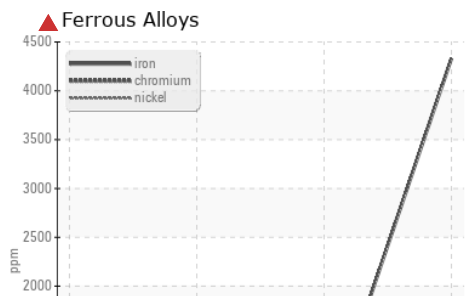
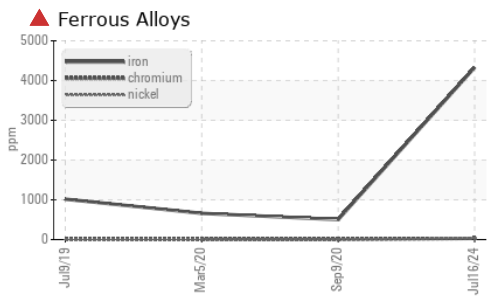
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 2069</b>	▲ 111	▲ 270
Potassium	ppm	ASTM D5185m	>20	<b>184</b>	5	8
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
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 oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	<b>59</b>	4	4
Boron	ppm	ASTM D5185m	6	<b>11</b>	14	3
Barium	ppm	ASTM D5185m	0	<b>4</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>9</b>	5	0
Manganese	ppm	ASTM D5185m		<b>41</b>	4	5
Magnesium	ppm	ASTM D5185m	145	<b>184</b>	115	100
Calcium	ppm	ASTM D5185m	3570	<b>3481</b>	3325	3403
Phosphorus	ppm	ASTM D5185m	1290	<b>918</b>	992	958
Zinc	ppm	ASTM D5185m	1640	<b>1152</b>	1230	1084
Sulfur	ppm	ASTM D5185m		<b>3496</b>	3135	2629
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.3</b>	58.8	55.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225166 **Received** : 17 Jul 2024  
**Lab Number** : 06239363 **Tested** : 18 Jul 2024  
**Unique Number** : 11128197 **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)