



# OIL ANALYSIS REPORT

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



Area  
**{unassigned}**  
Machine Id  
**JOHN DEERE 644K 1DW644KZJKF694571**  
Component  
**Transmission (Manual)**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0043746</b>	LEC0027457	LEC0020078
Sample Date		Client Info		<b>01 Aug 2023</b>	16 Feb 2022	07 Apr 2021
Machine Age	hrs	Client Info		<b>3330</b>	1870	1224
Oil Age	hrs	Client Info		<b>3330</b>	1870	1224
Filter Age	hrs	Client Info		<b>3300</b>	1870	1224
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>14</b>	17	21
Iron	ppm	ASTM D5185m	>200	<b>26</b>	25	18
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	2
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	1	1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>225	<b>10</b>	8	7
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

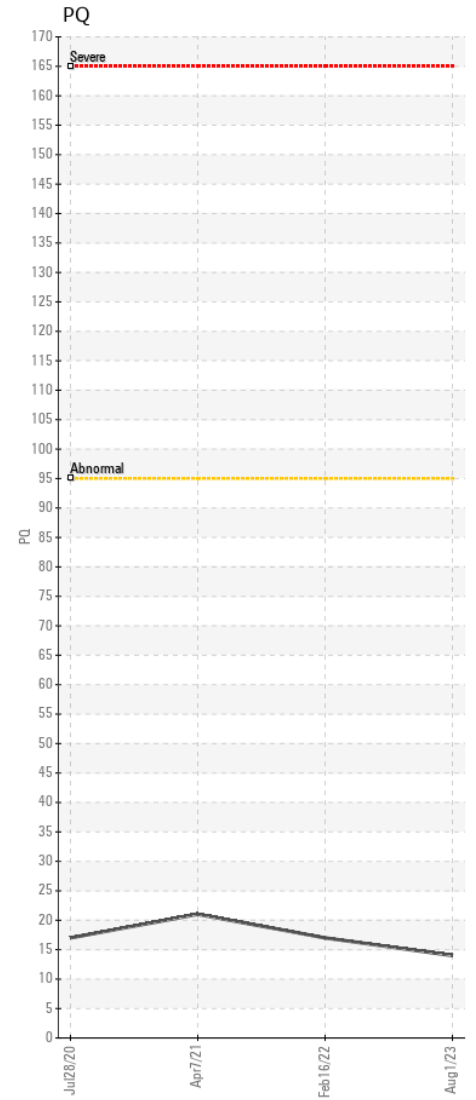
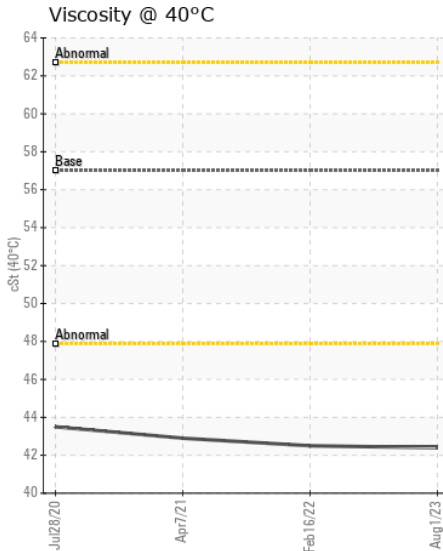
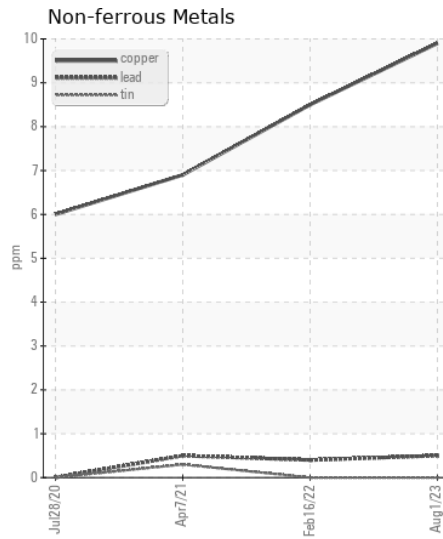
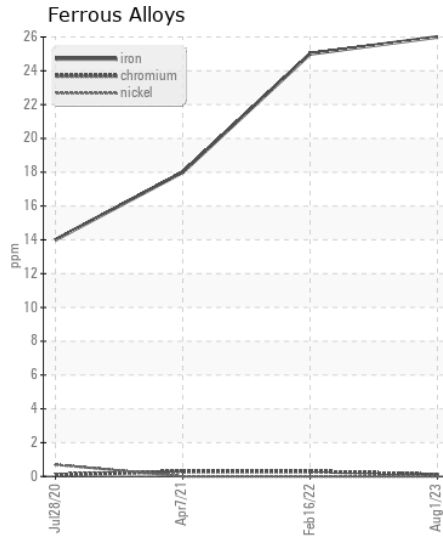
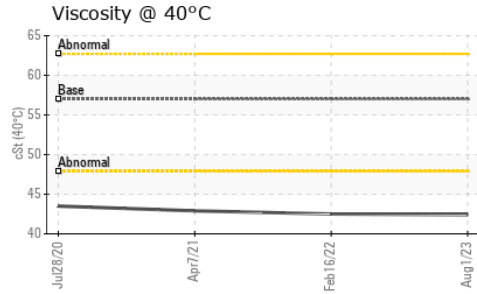
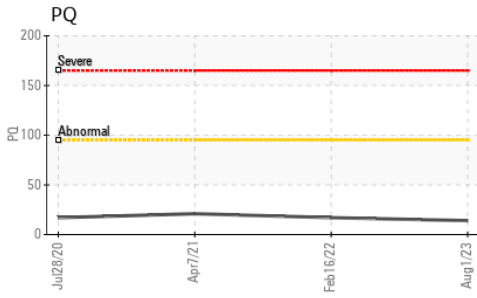
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>125	<b>34</b>	34	31
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
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	LIGHT
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>22</b>	25	26
Boron	ppm	ASTM D5185m	6	<b>&lt;1</b>	3	5
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	0	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>93</b>	105	88
Calcium	ppm	ASTM D5185m	3570	<b>2967</b>	3476	3045
Phosphorus	ppm	ASTM D5185m	1290	<b>965</b>	1110	967
Zinc	ppm	ASTM D5185m	1640	<b>1204</b>	1273	1219
Sulfur	ppm	ASTM D5185m		<b>3961</b>	3497	3177
Visc @ 40°C	cSt	ASTM D445	57.0	<b>42.4</b>	42.5	42.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0043746 **Received** : 03 Aug 2023  
**Lab Number** : 05915542 **Tested** : 04 Aug 2023  
**Unique Number** : 10587456 **Diagnosed** : 06 Aug 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
 105 TENNIS CENTER DR.  
 MARIETTA, OH  
 US 45750-9765  
 Contact: LEANNE KENDALL  
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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)

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