



# OIL ANALYSIS REPORT

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



Area  
**Store 9 - Marietta**  
Machine Id  
**John Deere 544K 1DW544KZHEE659476**  
Component  
**Front Axle**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0045031</b>	LEC0026410	LEC0025573
Sample Date		Client Info		<b>26 Feb 2024</b>	16 Mar 2022	30 Nov 2021
Machine Age	hrs	Client Info		<b>10641</b>	6830	6215
Oil Age	hrs	Client Info		<b>4426</b>	615	3815
Filter Age	hrs	Client Info		<b>500</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR

Bearing and/or bushing wear is indicated.

PQ		ASTM D8184		<b>16</b>	21	32
Iron	ppm	ASTM D5185m	>750	<b>191</b>	57	238
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>49	<b>▲ 129</b>	29	<b>▲ 124</b>
Copper	ppm	ASTM D5185m	>101	<b>151</b>	20	80
Tin	ppm	ASTM D5185m	>10	<b>10</b>	1	6
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

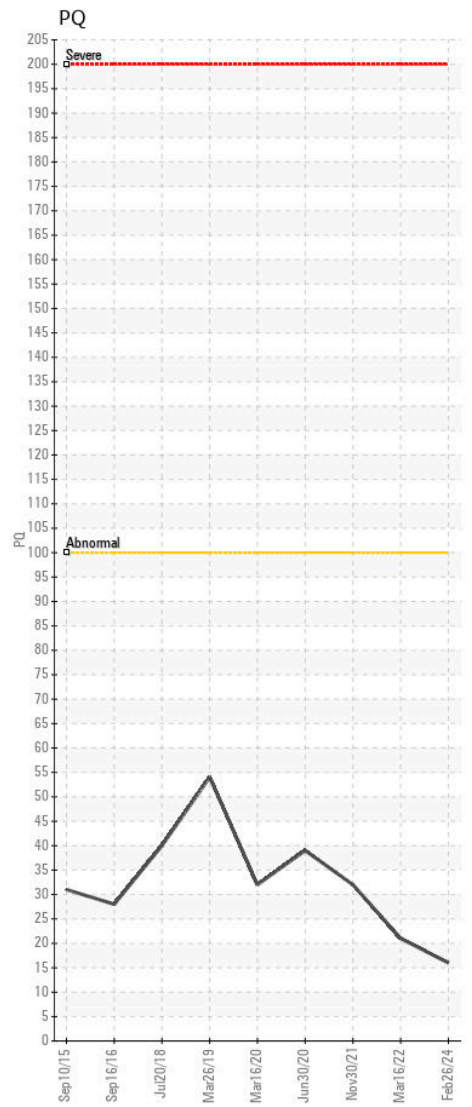
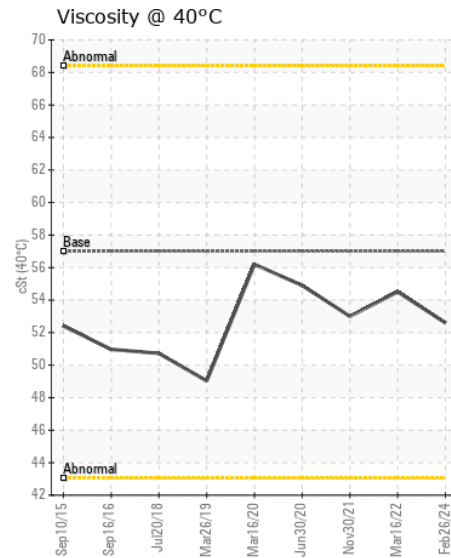
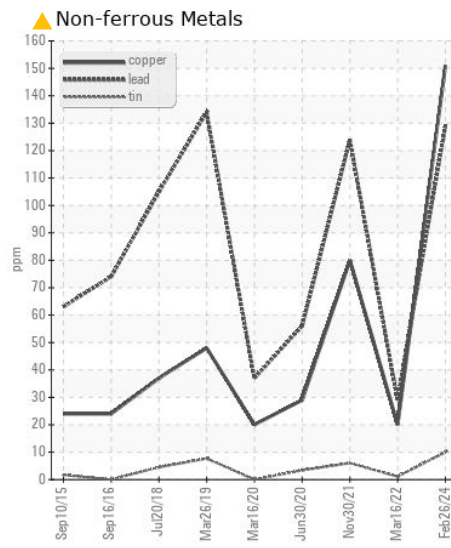
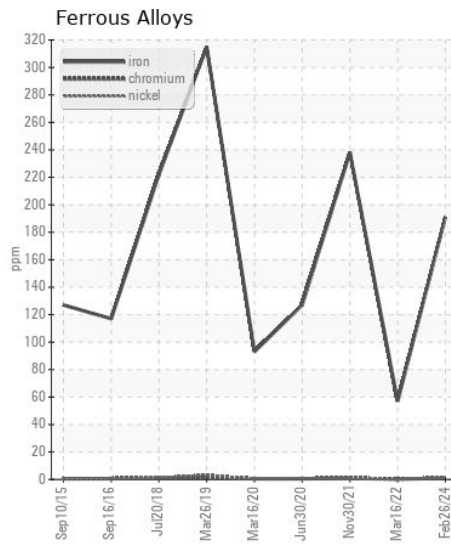
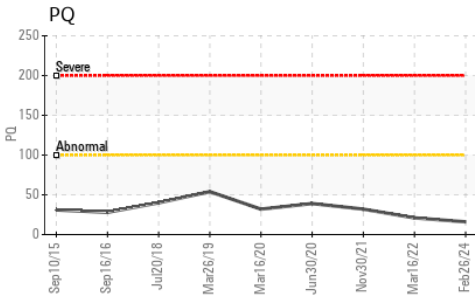
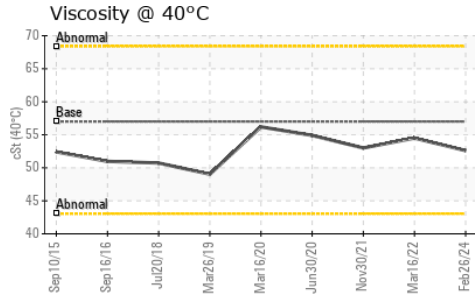
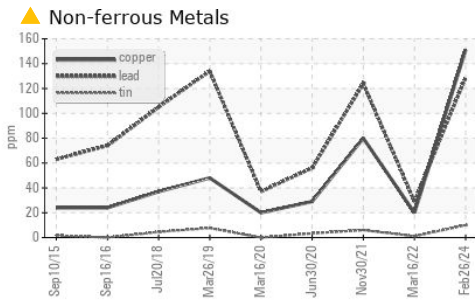
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>11</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>4</b>	<1	5
Boron	ppm	ASTM D5185m	6	<b>8</b>	8	19
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>7</b>	12	26
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m	145	<b>149</b>	115	167
Calcium	ppm	ASTM D5185m	3570	<b>4386</b>	3391	3299
Phosphorus	ppm	ASTM D5185m	1290	<b>1350</b>	1056	992
Zinc	ppm	ASTM D5185m	1640	<b>1680</b>	1238	1144
Sulfur	ppm	ASTM D5185m		<b>5534</b>	3283	2971
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.6</b>	54.5	53.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0045031 **Received** : 28 Feb 2024  
**Lab Number** : 06103262 **Tested** : 01 Mar 2024  
**Unique Number** : 10901492 **Diagnosed** : 01 Mar 2024 - 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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