



# OIL ANALYSIS REPORT

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



Area  
**SOLD LOCATIONS - LESCHI - CHILLICOTHE**  
Machine Id  
**JOHN DEERE 644J DW644JZ616347**  
Component  
**Rear Differential**  
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>LEC0050865</b>	LEC0038959	LEC0033128
Sample Date		Client Info		<b>24 Jun 2024</b>	15 Feb 2023	24 May 2022
Machine Age	hrs	Client Info		<b>18841</b>	17371	16524
Oil Age	hrs	Client Info		<b>18841</b>	2347	1500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	None	None
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>35</b>	25	25
Iron	ppm	ASTM D5185m		<b>187</b>	135	116
Chromium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m		<b>2</b>	1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m		<b>3</b>	1	1
Lead	ppm	ASTM D5185m		<b>48</b>	41	29
Copper	ppm	ASTM D5185m		<b>22</b>	16	10
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

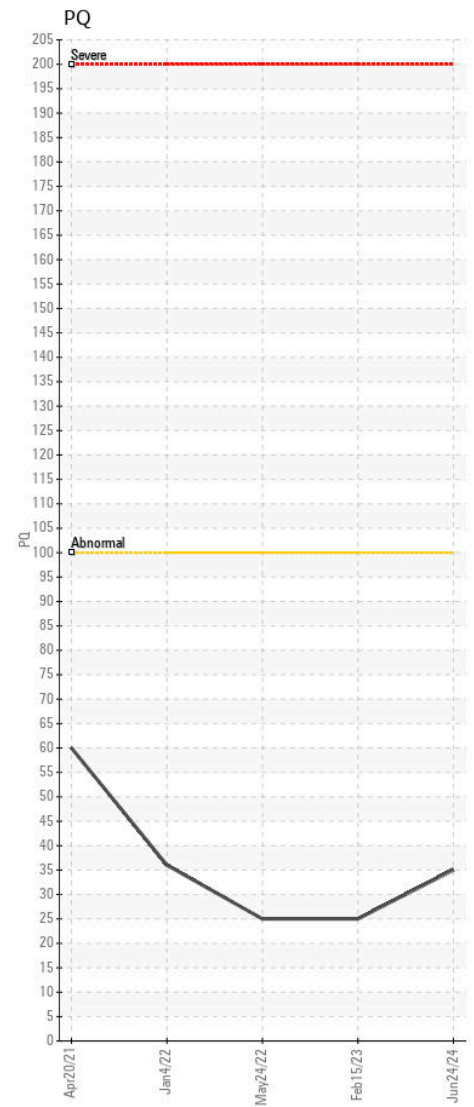
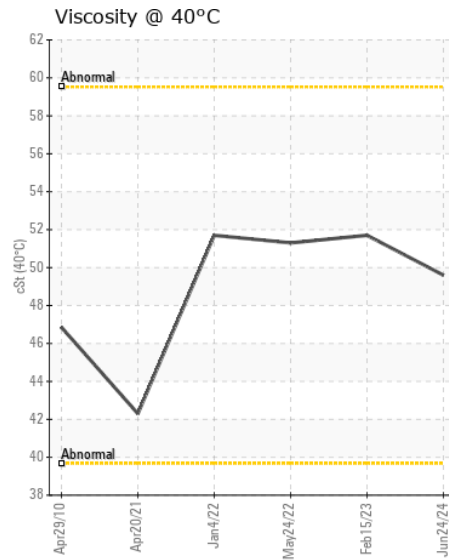
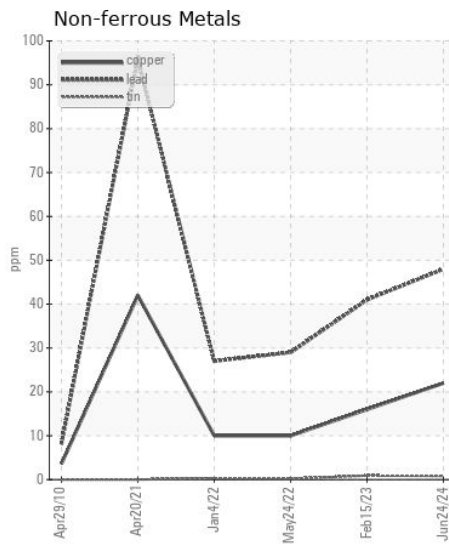
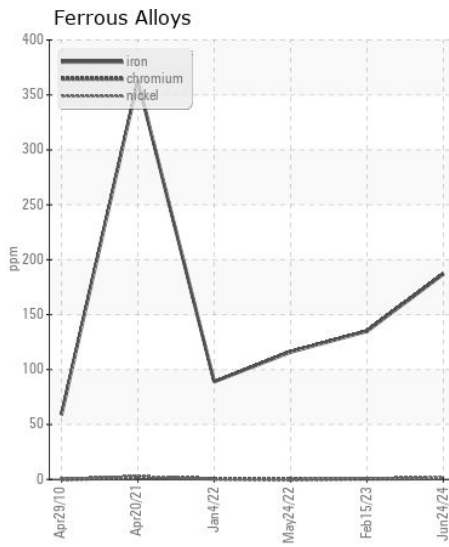
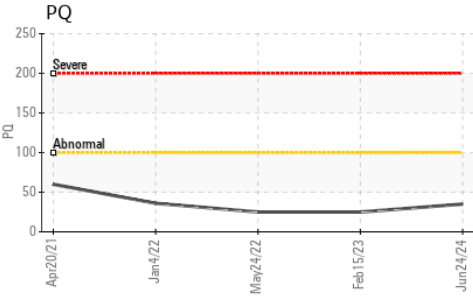
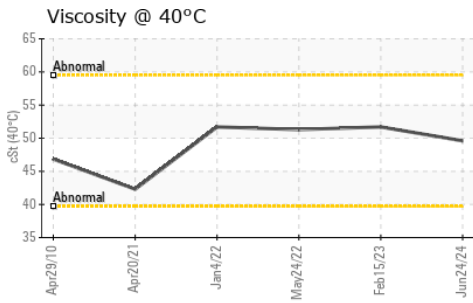
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>16</b>	11	8
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method		<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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		<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>18</b>	14	16
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	3	2
Manganese	ppm	ASTM D5185m		<b>2</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>92</b>	97	92
Calcium	ppm	ASTM D5185m		<b>3145</b>	3238	3163
Phosphorus	ppm	ASTM D5185m		<b>1076</b>	934	934
Zinc	ppm	ASTM D5185m		<b>1167</b>	1137	1137
Sulfur	ppm	ASTM D5185m		<b>5001</b>	3838	3367
Visc @ 40°C	cSt	ASTM D445		<b>49.6</b>	51.7	51.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050865 **Received** : 27 Jun 2024  
**Lab Number** : 06222575 **Tested** : 28 Jun 2024  
**Unique Number** : 11100772 **Diagnosed** : 28 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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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)