



# OIL ANALYSIS REPORT

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

Area  
**Store 1 - Cowen [152093]**  
Machine Id  
**JOHN DEERE 624P 1DW624PACMLZ13219**  
Component  
**Front Axle**  
Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (6 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0049860</b>	LEC0040520	LEC0041069
Sample Date		Client Info		<b>24 Jun 2024</b>	08 Feb 2024	04 Aug 2023
Machine Age	hrs	Client Info		<b>3679</b>	3146	2507
Oil Age	hrs	Client Info		<b>1660</b>	1127	488
Filter Age	hrs	Client Info		<b>533</b>	1127	488
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184		<b>16</b>	16	10
Iron	ppm	ASTM D5185m	>750	<b>44</b>	36	27
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185m	>49	<b>24</b>	20	13
Copper	ppm	ASTM D5185m	>101	<b>▲ 202</b>	<b>▲ 168</b>	<b>▲ 101</b>
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
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

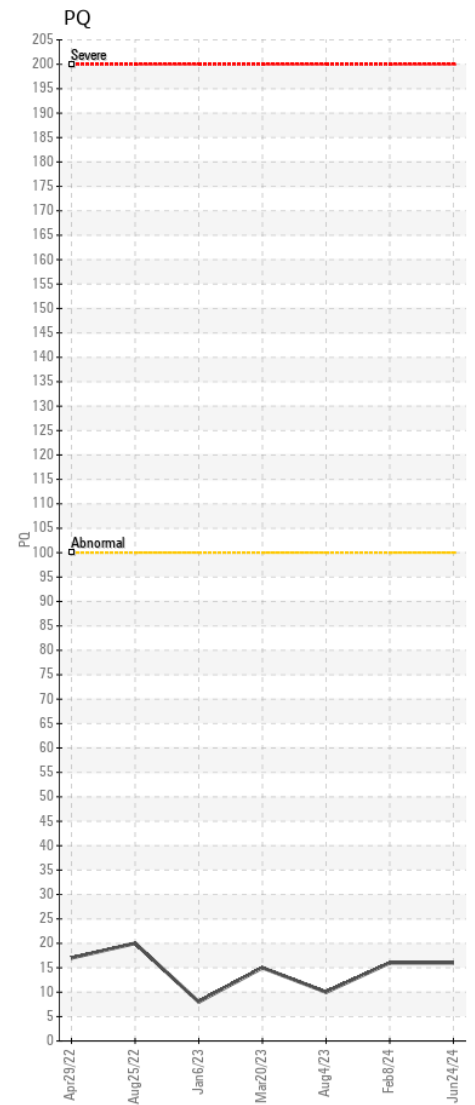
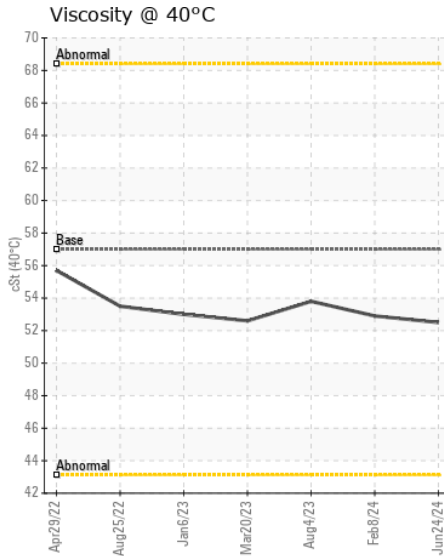
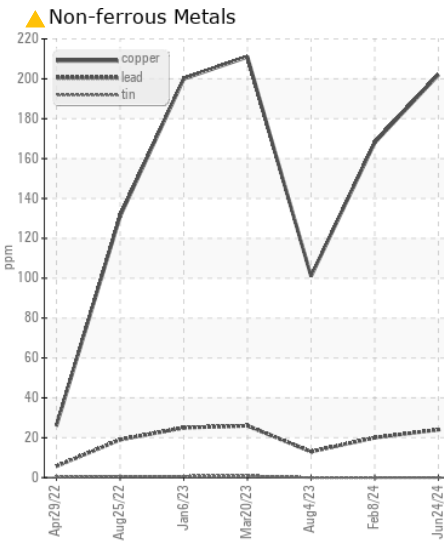
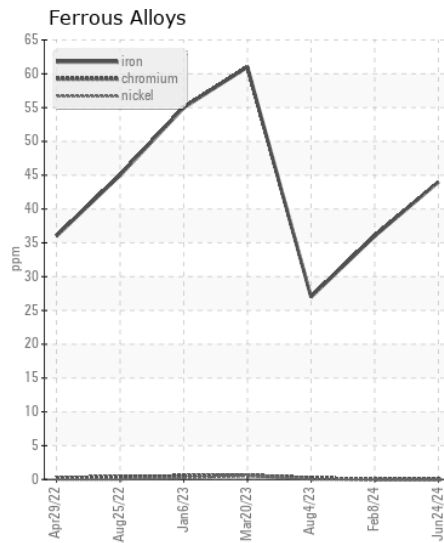
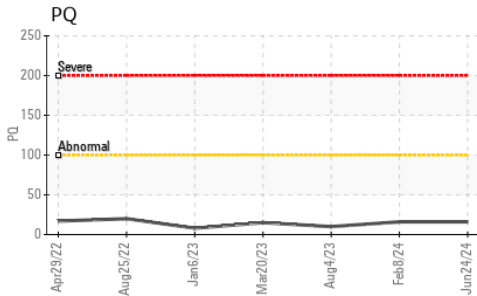
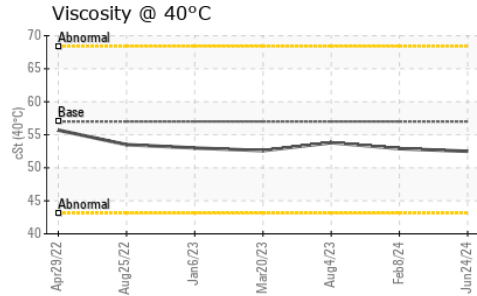
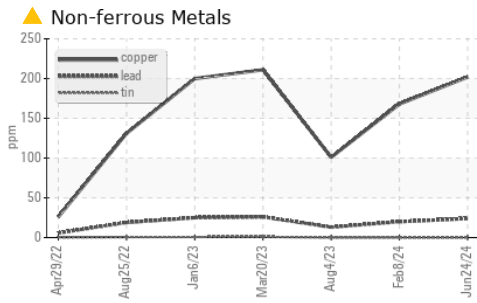
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>4</b>	3	3
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	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>	3	2
Boron	ppm	ASTM D5185m	6	<b>15</b>	1	0
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>109</b>	93	101
Calcium	ppm	ASTM D5185m	3570	<b>3272</b>	3382	3263
Phosphorus	ppm	ASTM D5185m	1290	<b>975</b>	987	982
Zinc	ppm	ASTM D5185m	1640	<b>1127</b>	1279	1221
Sulfur	ppm	ASTM D5185m		<b>4618</b>	3460	4133
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.5</b>	52.9	53.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0049860 **Received** : 26 Jun 2024  
**Lab Number** : 06221542 **Tested** : 27 Jun 2024  
**Unique Number** : 11099739 **Diagnosed** : 28 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**LESLIE EQUIPMENT COMPANY**  
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 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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