



# OIL ANALYSIS REPORT

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

Area

**Store 1 - Cowen [146747]**

Machine Id

**JOHN DEERE 624P 1DW624PAJNLZ15097**

Component

**Rear Axle**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0041116</b>	LEC0044283	LEC0043515
Sample Date		Client Info		<b>12 Jan 2024</b>	20 Oct 2023	09 Aug 2023
Machine Age	hrs	Client Info		<b>2627</b>	2077	1595
Oil Age	hrs	Client Info		<b>550</b>	2077	1595
Filter Age	hrs	Client Info		<b>550</b>	482	526
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>13</b>	24	22
Iron	ppm	ASTM D5185m	>750	<b>29</b>	98	97
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>21	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m	>49	<b>23</b>	▲ 103	83
Copper	ppm	ASTM D5185m	>101	<b>59</b>	▲ 232	▲ 193
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

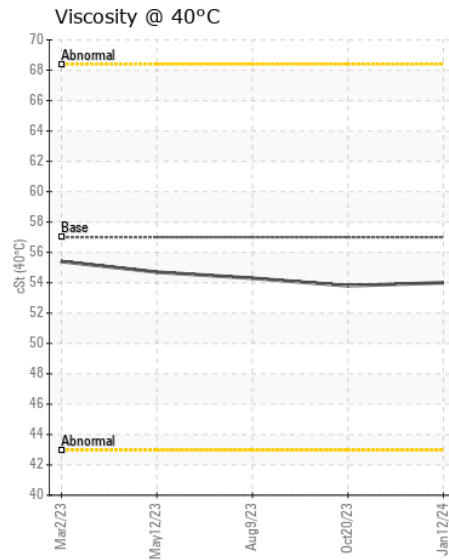
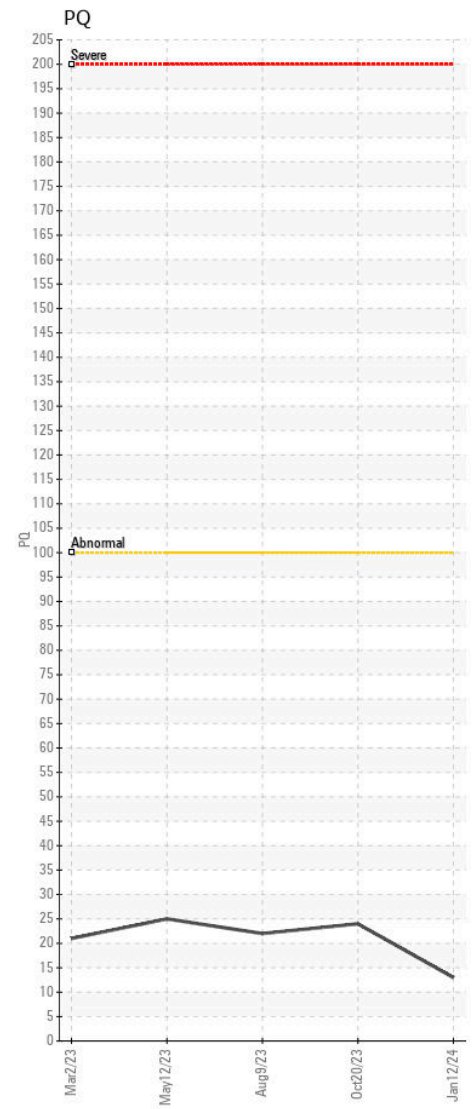
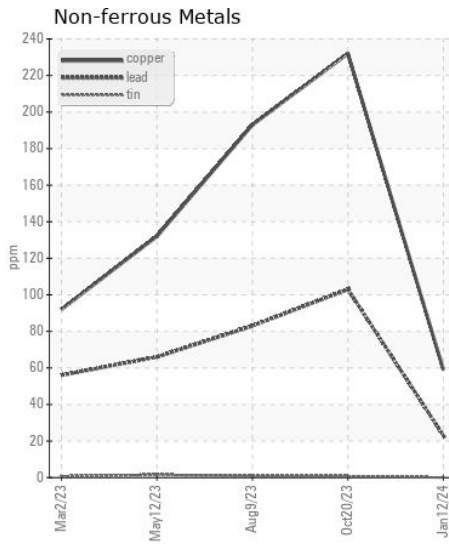
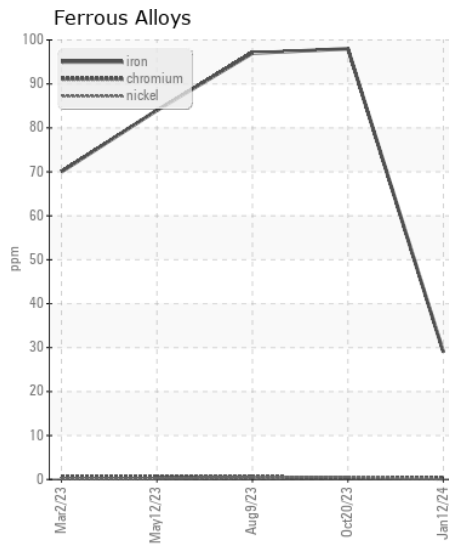
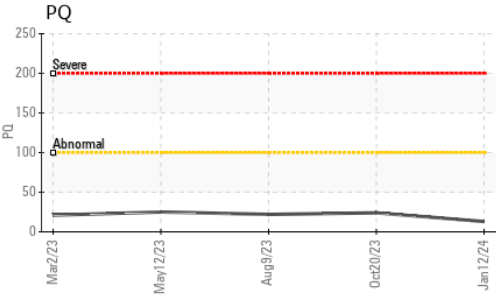
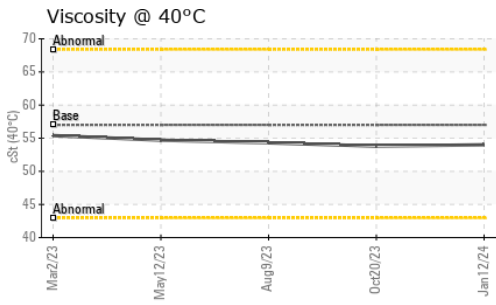
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>3</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	3
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>0</b>	3	4
Boron	ppm	ASTM D5185m	6	<b>0</b>	0	4
Barium	ppm	ASTM D5185m	0	<b>3</b>	2	5
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	2	2
Magnesium	ppm	ASTM D5185m	145	<b>97</b>	92	80
Calcium	ppm	ASTM D5185m	3570	<b>3368</b>	3310	3233
Phosphorus	ppm	ASTM D5185m	1290	<b>985</b>	1092	973
Zinc	ppm	ASTM D5185m	1640	<b>1245</b>	1252	1149
Sulfur	ppm	ASTM D5185m		<b>3767</b>	3803	3747
Visc @ 40°C	cSt	ASTM D445	57.0	<b>54.0</b>	53.8	54.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041116 **Received** : 18 Jan 2024  
**Lab Number** : 06064590 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10835972 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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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