



# OIL ANALYSIS REPORT

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



Machine Id  
**JOHN DEERE 624P 1DW624PACNLZ15725**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HN 68 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0004927</b>	WE0002674	---
Sample Date		Client Info		<b>23 Feb 2024</b>	26 Oct 2022	---
Machine Age	hrs	Client Info		<b>7320</b>	578	---
Oil Age	hrs	Client Info		<b>1320</b>	578	---
Filter Age	hrs	Client Info		<b>1000</b>	578	---
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	---
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>8</b>	---	---
Iron	ppm	ASTM D5185m	>71	<b>1</b>	<1	---
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	1	---
Aluminum	ppm	ASTM D5185m	>11	<b>1</b>	0	---
Lead	ppm	ASTM D5185m	>13	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>21	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

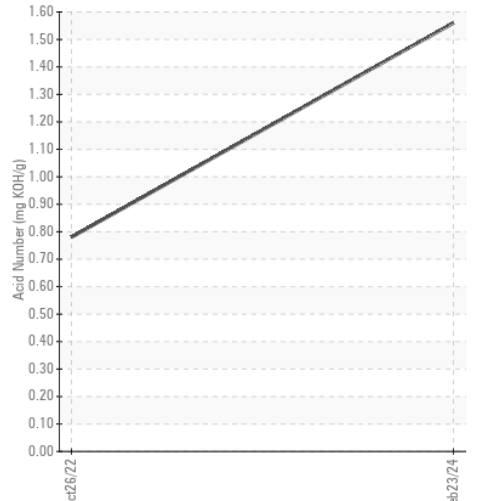
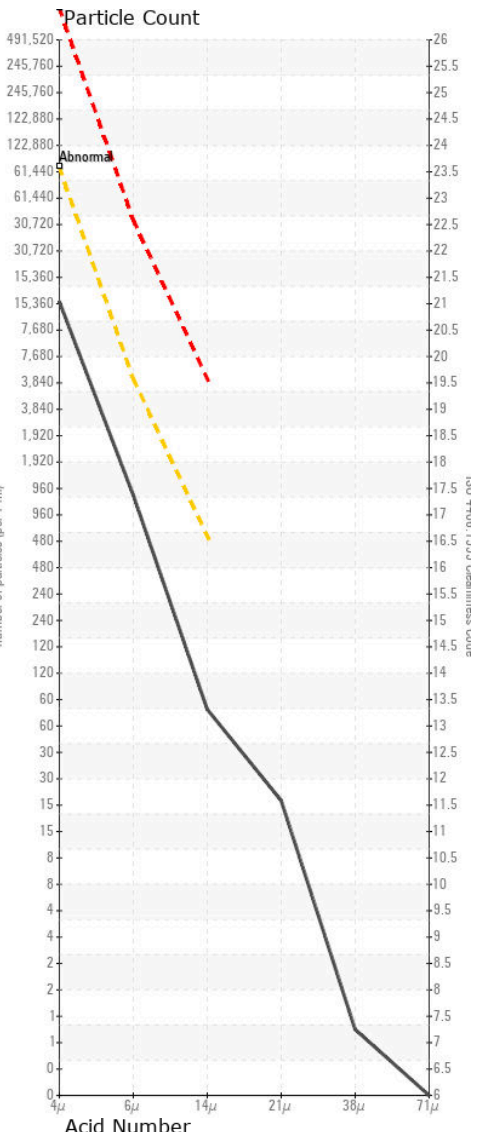
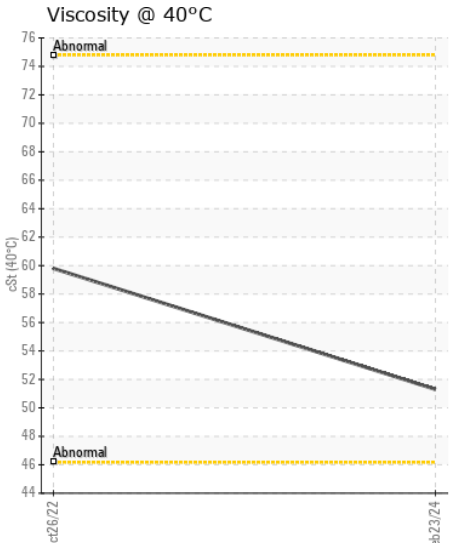
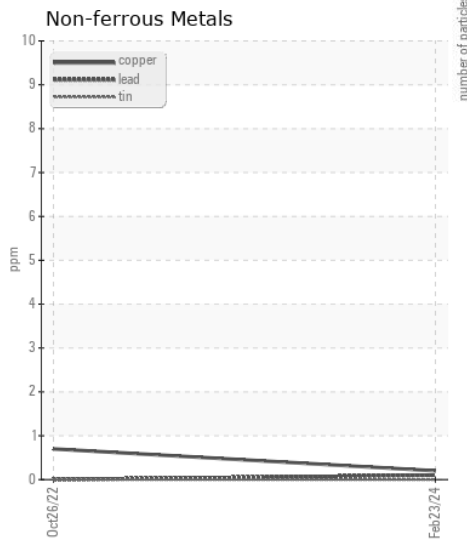
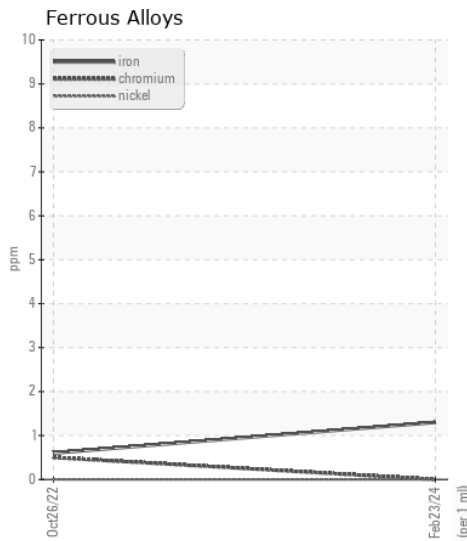
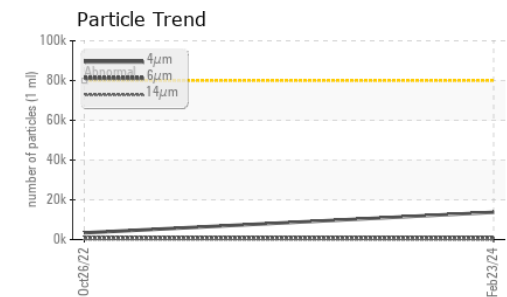
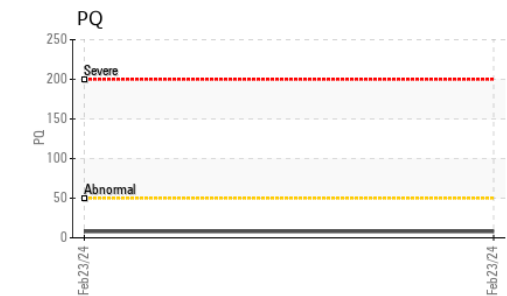
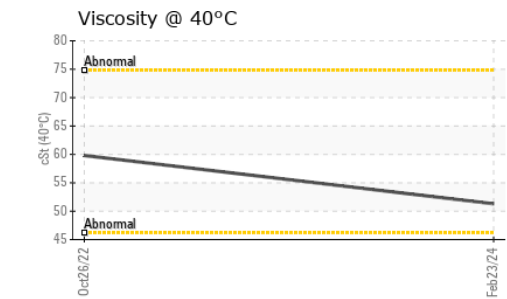
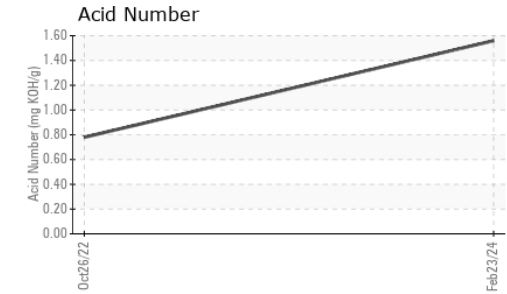
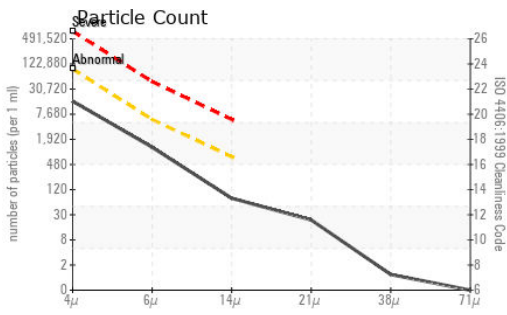
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	<b>10</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>13732</b>	3387	---
Particles >6µm		ASTM D7647	>5000	<b>1089</b>	992	---
Particles >14µm		ASTM D7647	>640	<b>66</b>	161	---
Particles >21µm		ASTM D7647	>160	<b>20</b>	66	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	4	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>21/17/13</b>	19/17/15	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	<b>2</b>	0	---
Boron	ppm	ASTM D5185m		<b>96</b>	<1	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>48</b>	4	---
Calcium	ppm	ASTM D5185m		<b>3207</b>	99	---
Phosphorus	ppm	ASTM D5185m		<b>1114</b>	633	---
Zinc	ppm	ASTM D5185m		<b>1366</b>	860	---
Sulfur	ppm	ASTM D5185m		<b>2988</b>	1860	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.56</b>	0.78	---
Visc @ 40°C	cSt	ASTM D445		<b>51.3</b>	59.8	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0004927 **Received** : 28 Feb 2024  
**Lab Number** : 06102891 **Tested** : 29 Feb 2024  
**Unique Number** : 10901121 **Diagnosed** : 29 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**  
 25135 ONE AVIATION WAY SW  
 MADISON, AL  
 US 35756  
 Contact: TODD MITCHELL  
 t\_mitchell@warriortractor.com  
 T: (256)233-1914  
 F: (256)233-1971

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)