



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 624P 1DW624PANVLZ16592**

Component  
**Hydraulic System**

Fluid  
**JOHN DEERE HYDRAU (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WE0006455</b>	WE0005825	WE0005050
Sample Date		Client Info		<b>06 Feb 2024</b>	08 Nov 2023	31 Aug 2023
Machine Age	hrs	Client Info		<b>3544</b>	2986	2510
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	N/A
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>3</b>	2	7
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

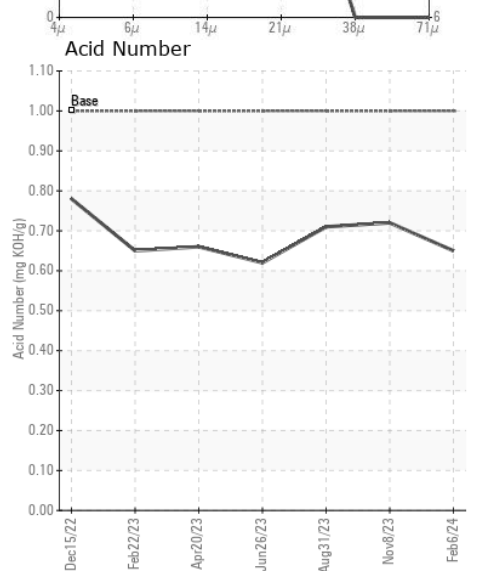
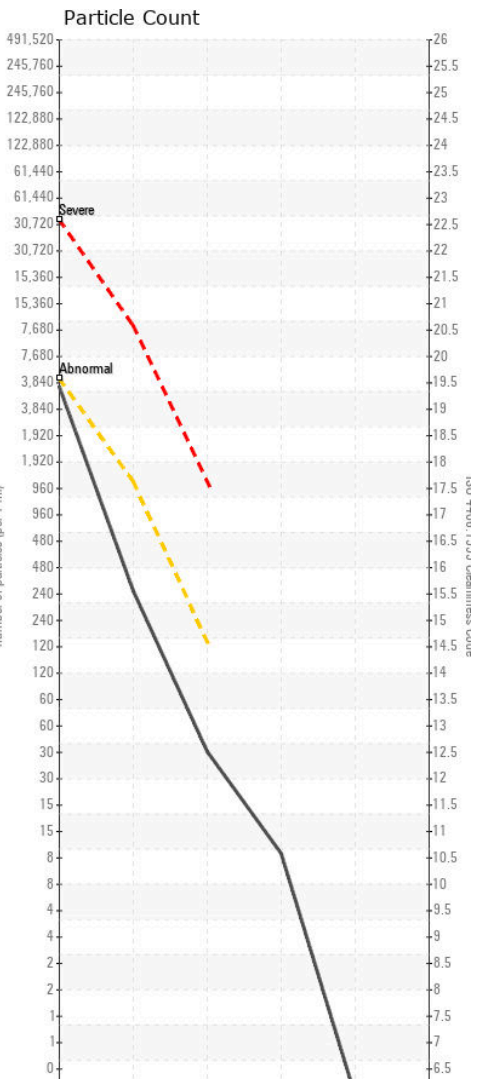
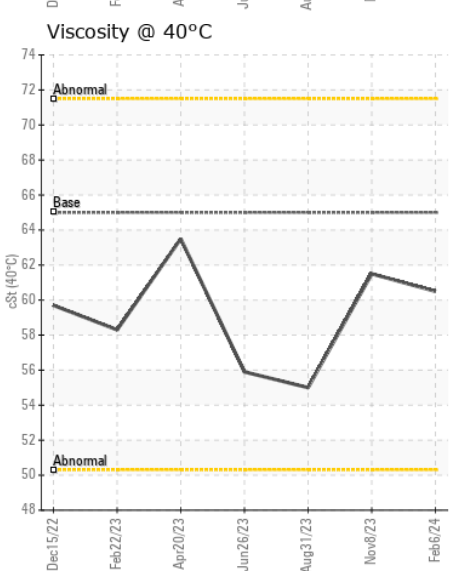
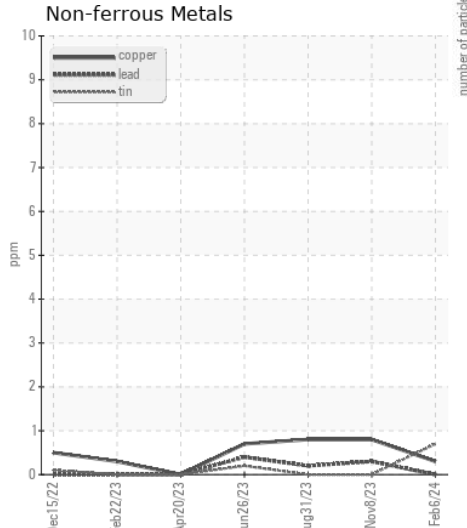
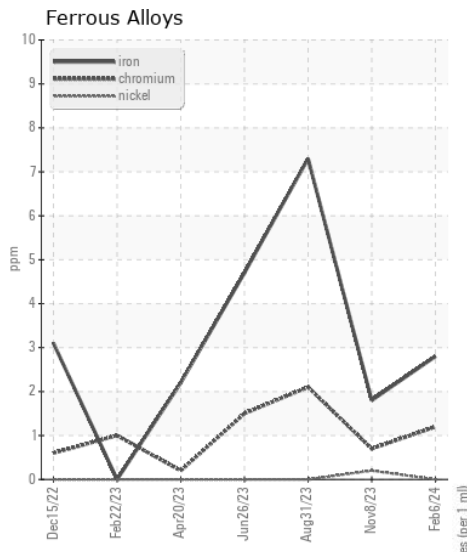
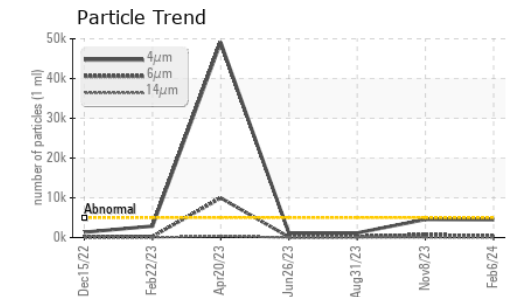
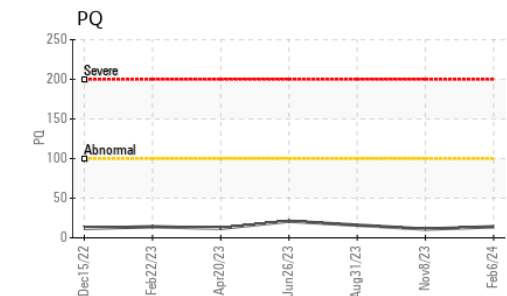
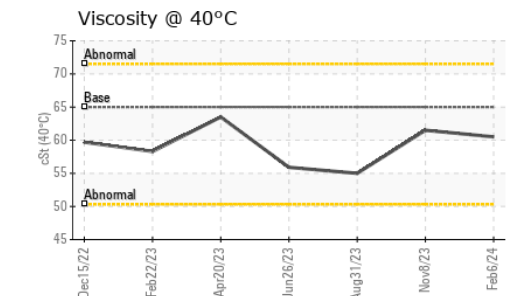
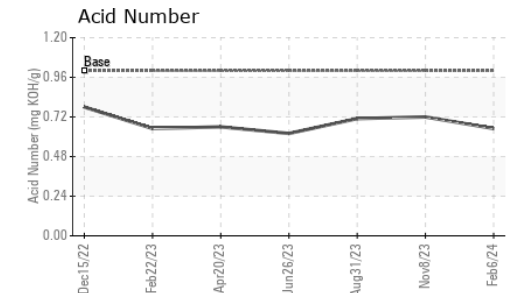
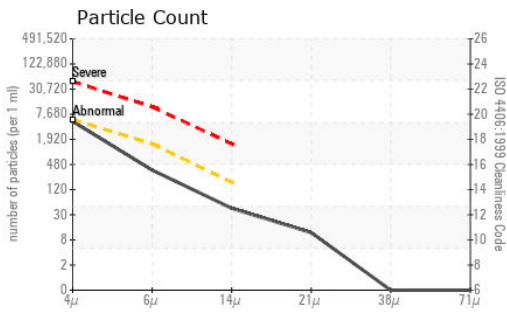
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	2	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>4504</b>	4572	1153
Particles >6µm		ASTM D7647	>1300	<b>311</b>	716	240
Particles >14µm		ASTM D7647	>160	<b>38</b>	68	36
Particles >21µm		ASTM D7647	>40	<b>10</b>	13	12
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/15/12</b>	19/17/13	17/15/12
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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	2
Boron	ppm	ASTM D5185m		<b>3</b>	2	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>4</b>	3	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>47</b>	55	10
Calcium	ppm	ASTM D5185m	87	<b>355</b>	401	240
Phosphorus	ppm	ASTM D5185m	727	<b>656</b>	719	646
Zinc	ppm	ASTM D5185m	900	<b>824</b>	916	861
Sulfur	ppm	ASTM D5185m	1500	<b>1732</b>	1917	2021
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.65</b>	0.72	0.71
Visc @ 40°C	cSt	ASTM D445	65	<b>60.5</b>	61.5	55.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006455 **Received** : 08 Feb 2024  
**Lab Number** : 06083532 **Tested** : 09 Feb 2024  
**Unique Number** : 10870977 **Diagnosed** : 09 Feb 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
 P.O. BOX 412  
 NORTHPORT, AL  
 US 35476  
 Contact: CRAIG ANDOE  
 serve01@warriortractor.com  
 T: (205)339-0300  
 F:

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)