



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**JOHN DEERE 624L 624L UNIT 6**  
 Component  
**Transmission (Manual)**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PE0003787</b>	PE0002515	PE0002493
Sample Date		Client Info		<b>08 Feb 2024</b>	20 Dec 2023	27 Sep 2023
Machine Age	hrs	Client Info		<b>6721</b>	6299	5992
Oil Age	hrs	Client Info		<b>6299</b>	5992	5244
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>25</b>	21	17
Iron	ppm	ASTM D5185m	>200	<b>60</b>	58	45
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	4	9
Lead	ppm	ASTM D5185m	>45	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>225	<b>4</b>	7	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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**

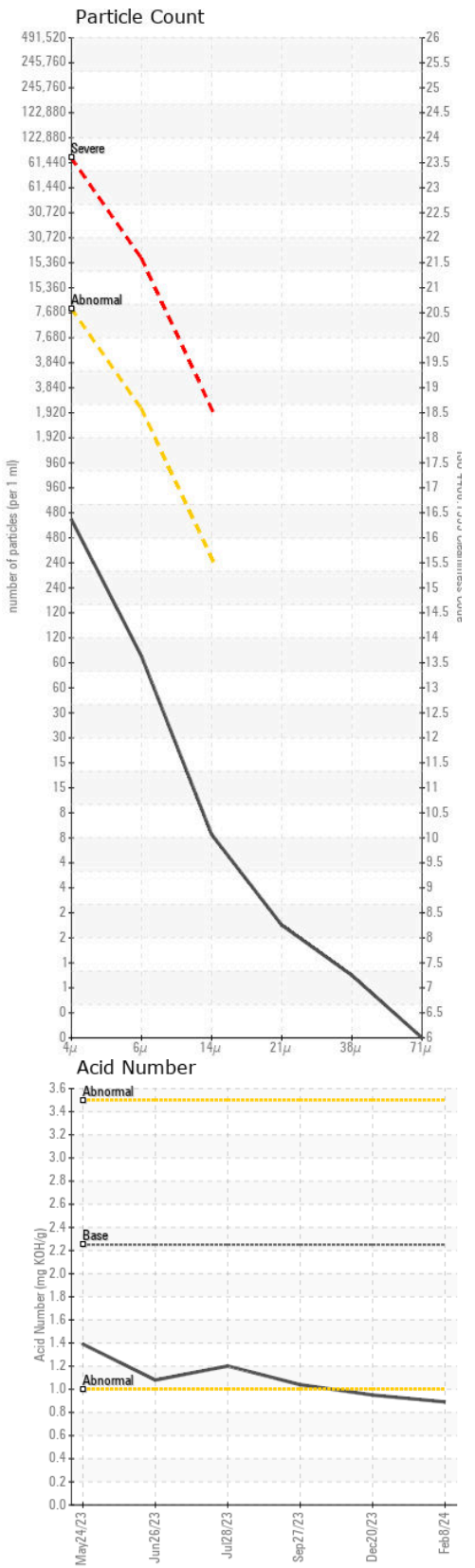
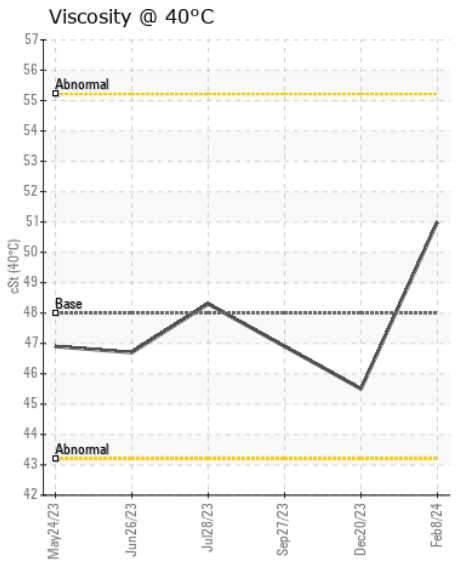
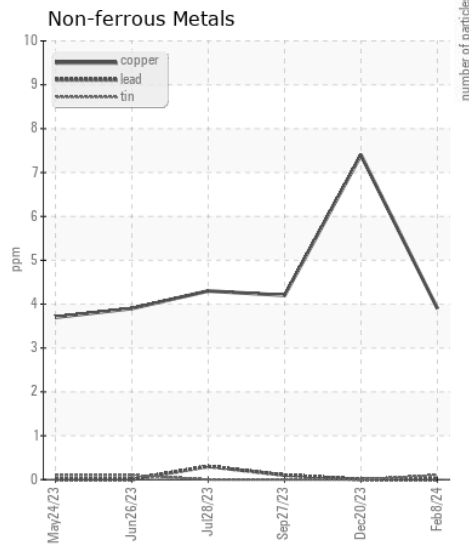
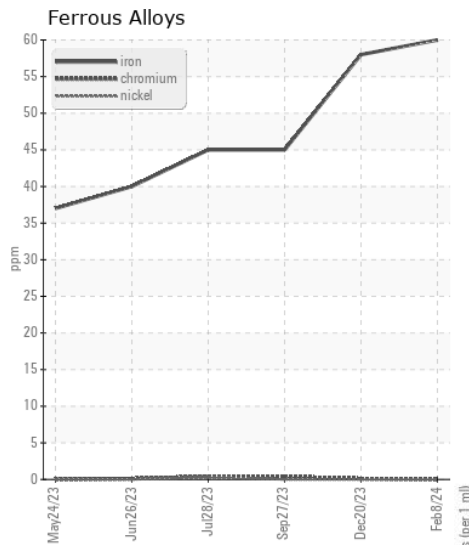
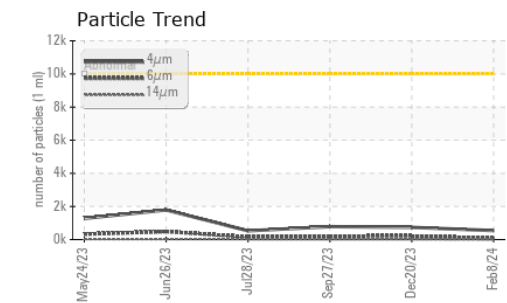
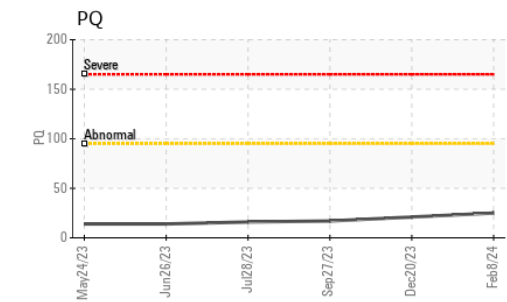
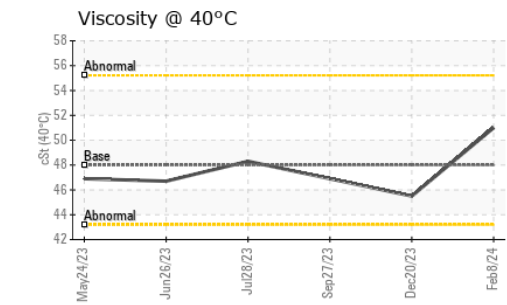
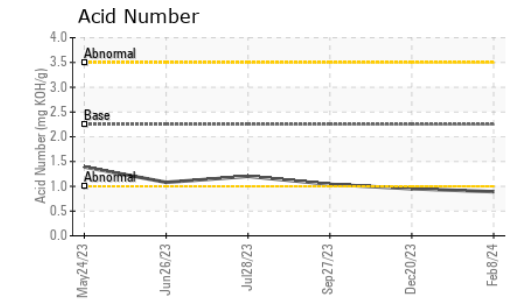
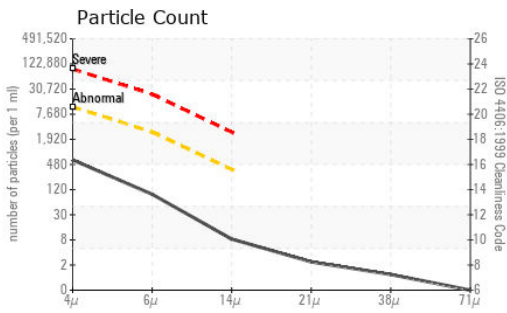
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	<b>34</b>	34	35
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>543</b>	737	781
Particles >6µm		ASTM D7647	>2500	<b>82</b>	214	210
Particles >14µm		ASTM D7647	>320	<b>7</b>	21	21
Particles >21µm		ASTM D7647	>80	<b>2</b>	6	7
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>16/14/10</b>	17/15/12	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>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m	10	<b>5</b>	6	8
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	10	<b>5</b>	7	7
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>93</b>	101	93
Calcium	ppm	ASTM D5185m	3500	<b>2703</b>	3023	2757
Phosphorus	ppm	ASTM D5185m	1150	<b>997</b>	936	992
Zinc	ppm	ASTM D5185m	1150	<b>1150</b>	1211	1164
Sulfur	ppm	ASTM D5185m	5000	<b>3524</b>	3642	3687
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>0.89</b>	0.95	1.04
Visc @ 40°C	cSt	ASTM D445	48	<b>51.0</b>	45.5	46.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003787 **Received** : 14 Feb 2024  
**Lab Number** : 06088666 **Tested** : 15 Feb 2024  
**Unique Number** : 10876111 **Diagnosed** : 15 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )

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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