



OIL ANALYSIS REPORT

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

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>PE0002538</b>	PE0003798	PE0003813
Sample Date		Client Info		<b>10 Jul 2024</b>	14 May 2024	05 Apr 2024
Machine Age	hrs	Client Info		<b>7849</b>	7377	7165
Oil Age	hrs	Client Info		<b>7377</b>	7165	6934
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>21</b>	23	17
Iron	ppm	ASTM D5185m	>200	<b>58</b>	44	55
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	3
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>225	<b>5</b>	3	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	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**

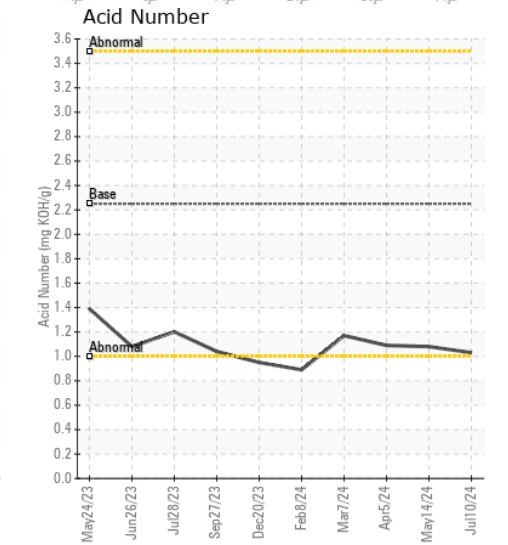
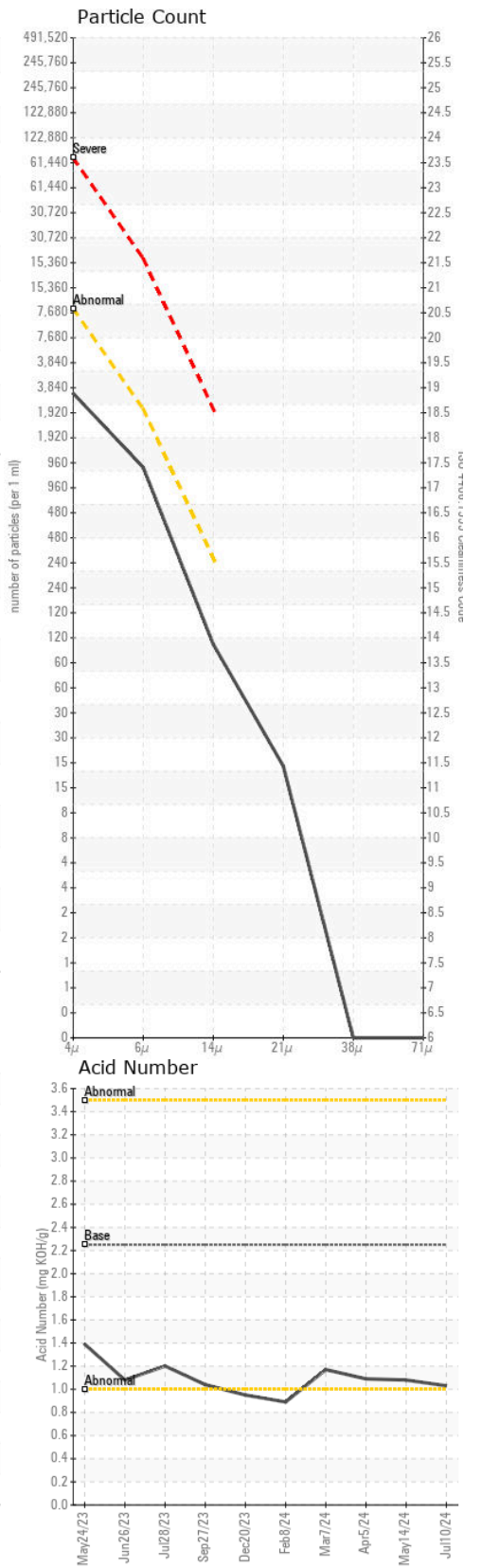
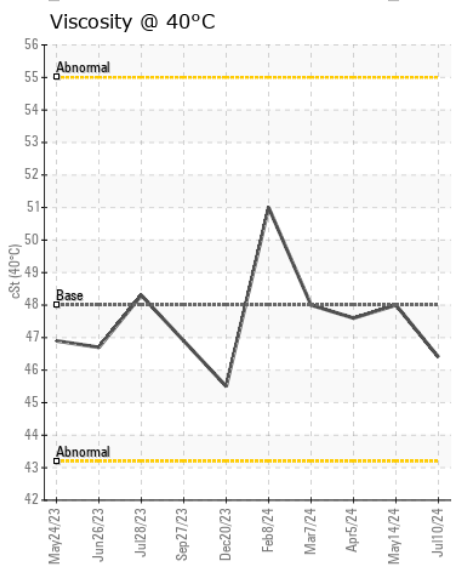
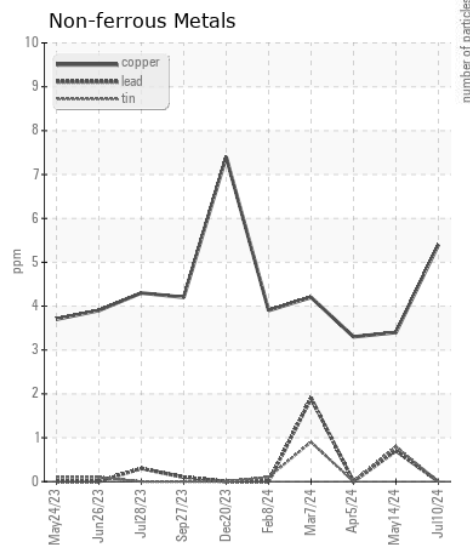
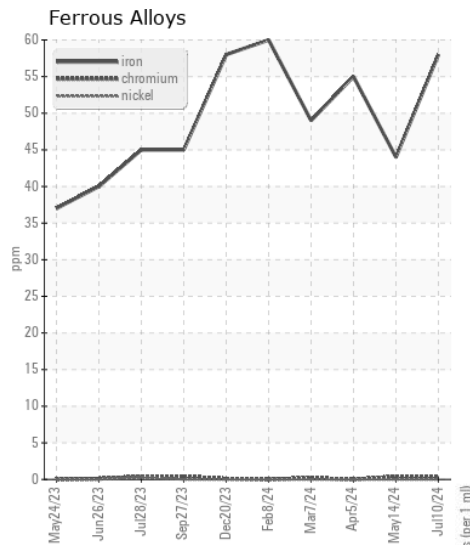
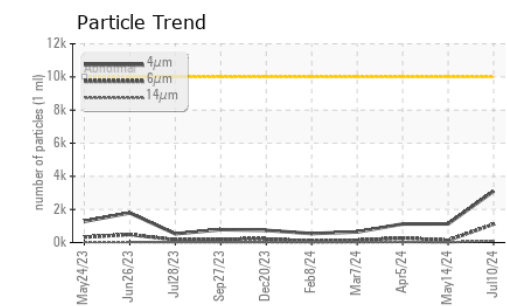
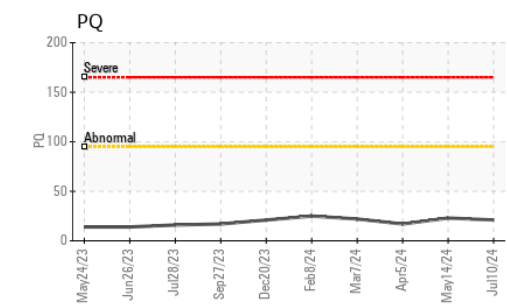
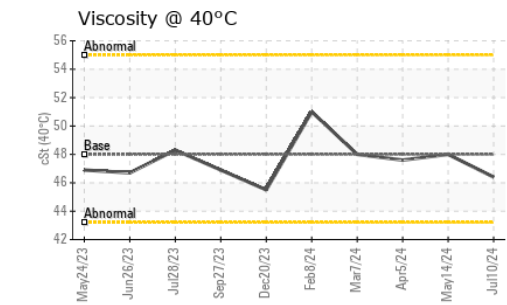
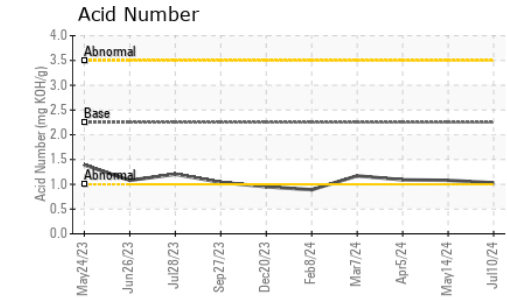
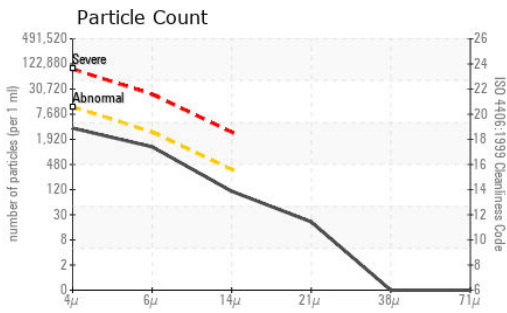
There is no indication of any contamination in the fluid. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>125	<b>27</b>	20	27
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>3101</b>	1127	1122
Particles >6µm		ASTM D7647	>2500	<b>1115</b>	137	272
Particles >14µm		ASTM D7647	>320	<b>97</b>	11	30
Particles >21µm		ASTM D7647	>80	<b>18</b>	4	6
Particles >38µm		ASTM D7647	>20	<b>0</b>	1	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>19/17/14</b>	17/14/11	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 fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	0
Boron	ppm	ASTM D5185m	10	<b>5</b>	2	4
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	10	<b>5</b>	4	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	100	<b>95</b>	83	93
Calcium	ppm	ASTM D5185m	3500	<b>3237</b>	2816	2970
Phosphorus	ppm	ASTM D5185m	1150	<b>936</b>	949	996
Zinc	ppm	ASTM D5185m	1150	<b>1196</b>	971	1093
Sulfur	ppm	ASTM D5185m	5000	<b>3528</b>	3610	3732
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>1.03</b>	1.08	1.09
Visc @ 40°C	cSt	ASTM D445	48	<b>46.4</b>	48.0	47.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0002538 **Received** : 15 Jul 2024  
**Lab Number** : 06235762 **Tested** : 16 Jul 2024  
**Unique Number** : 11124596 **Diagnosed** : 16 Jul 2024 - Don Baldridge  
**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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