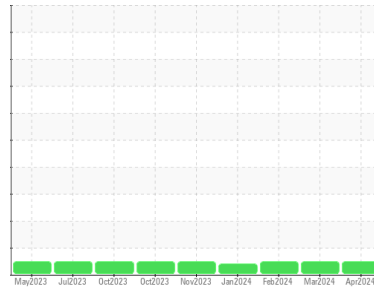




# OIL ANALYSIS REPORT

### Sample Rating Trend



**NORMAL**



Machine Id

**JOHN DEERE 624L 624L UNIT 1**

Component

**Transmission (Manual)**

Fluid

**TDH FLUID SAE 75W80 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

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

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PE0003811</b>	PE0003828	PE0003894
Sample Date	Client Info	<b>05 Apr 2024</b>	07 Mar 2024	08 Feb 2024
Machine Age	hrs	<b>7316</b>	7000	6721
Oil Age	hrs	<b>7000</b>	6721	6399
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184 >95	<b>16</b>	13	19
Iron	ppm ASTM D5185m >200	<b>21</b>	25	21
Chromium	ppm ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >7	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >25	<b>&lt;1</b>	2	2
Lead	ppm ASTM D5185m >45	<b>0</b>	2	0
Copper	ppm ASTM D5185m >225	<b>&lt;1</b>	2	<1
Tin	ppm ASTM D5185m >10	<b>&lt;1</b>	<1	0
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 10	<b>0</b>	<1	0
Barium	ppm ASTM D5185m 10	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 10	<b>0</b>	<1	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 100	<b>92</b>	86	90
Calcium	ppm ASTM D5185m 3500	<b>3233</b>	3208	3151
Phosphorus	ppm ASTM D5185m 1150	<b>1024</b>	1027	1039
Zinc	ppm ASTM D5185m 1150	<b>1111</b>	1000	1189
Sulfur	ppm ASTM D5185m 5000	<b>3801</b>	3824	3568

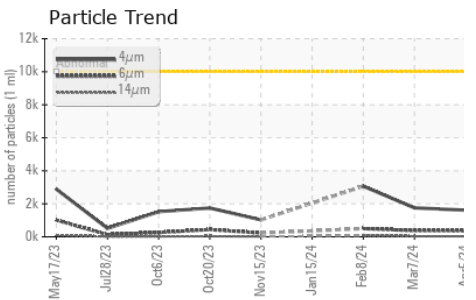
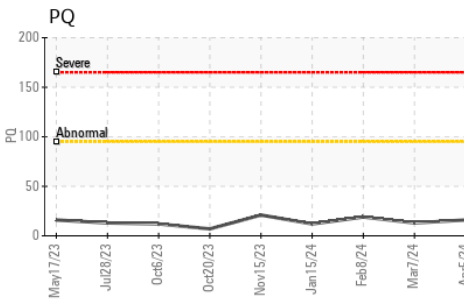
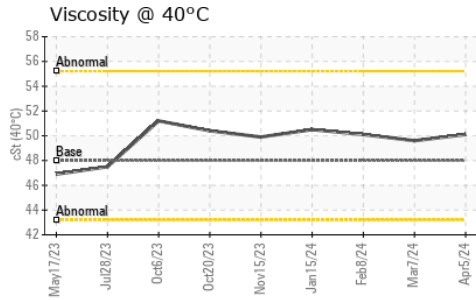
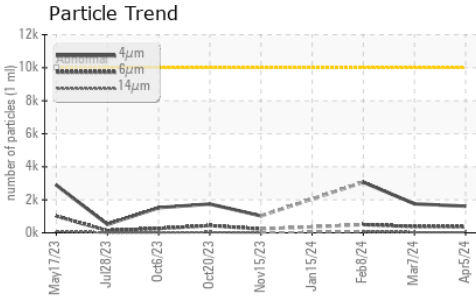
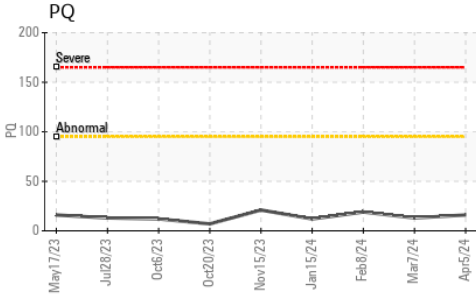
### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >125	<b>9</b>	10	11
Sodium	ppm ASTM D5185m	<b>0</b>	1	<1
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	0

### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>1610</b>	1756	3066
Particles >6µm	ASTM D7647 >2500	<b>363</b>	374	496
Particles >14µm	ASTM D7647 >320	<b>32</b>	34	65
Particles >21µm	ASTM D7647 >80	<b>9</b>	9	21
Particles >38µm	ASTM D7647 >20	<b>1</b>	0	1
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>18/16/12</b>	18/16/12	19/16/13

# OIL ANALYSIS REPORT

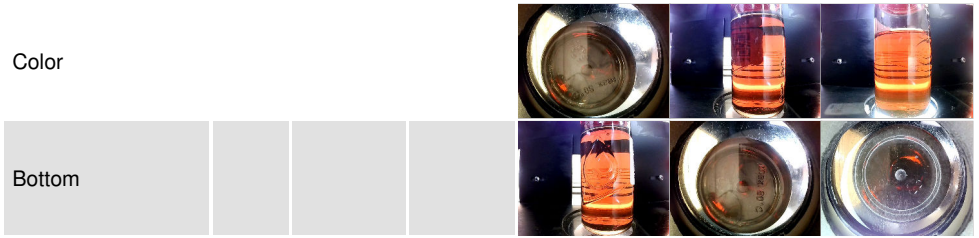


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>1.29</b>	1.32	1.11

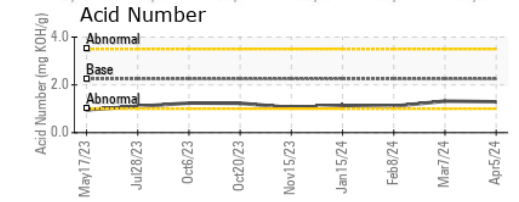
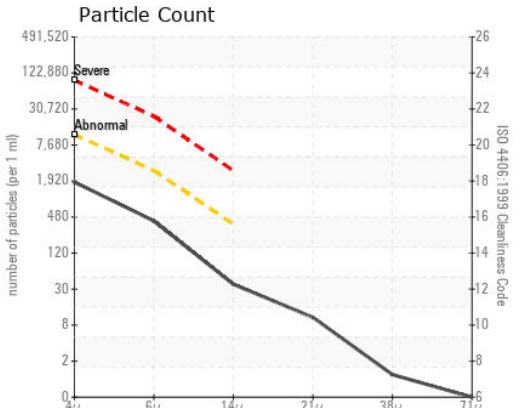
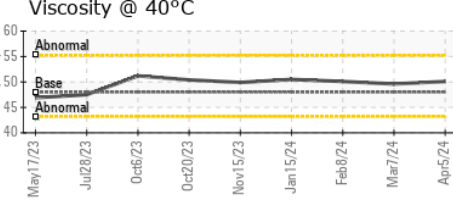
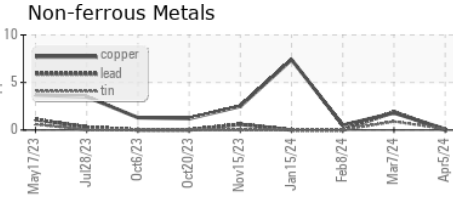
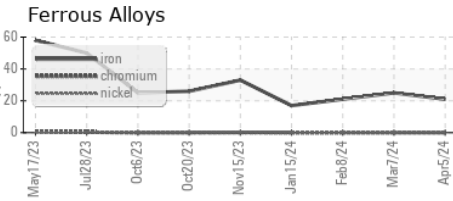
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	48	<b>50.1</b>	49.6	50.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003811 **Received** : 10 Apr 2024  
**Lab Number** : **06144108** **Tested** : 11 Apr 2024  
**Unique Number** : 10968916 **Diagnosed** : 12 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: ICP, KV40, PQ, PrtCount, SCREEN )

**MORNING STAR DAIRY**  
 801 FM 694  
 DALHART, TX  
 US 79022  
 Contact: JOHN DEVRIES  
 johndevries@gmail.com

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)