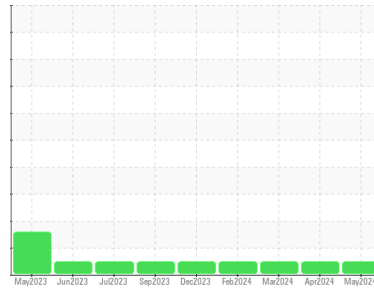




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**JOHN DEERE 624L 624L UNIT 6**

Component

**Transmission (Manual)**

Fluid

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the fluid. 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 fluid is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PE0003798</b>	PE0003813	PE0003832
Sample Date	Client Info		<b>14 May 2024</b>	05 Apr 2024	07 Mar 2024
Machine Age	hrs	Client Info	<b>7377</b>	7165	6934
Oil Age	hrs	Client Info	<b>7165</b>	6934	6725
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>23</b>	17	22	
Iron	ppm	ASTM D5185m	>200	<b>44</b>	55	49
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	4
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>225	<b>3</b>	3	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	10	<b>2</b>	4	8
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	10	<b>4</b>	4	6
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	100	<b>83</b>	93	98
Calcium	ppm	ASTM D5185m	3500	<b>2816</b>	2970	3045
Phosphorus	ppm	ASTM D5185m	1150	<b>949</b>	996	1049
Zinc	ppm	ASTM D5185m	1150	<b>971</b>	1093	1045
Sulfur	ppm	ASTM D5185m	5000	<b>3610</b>	3732	3985

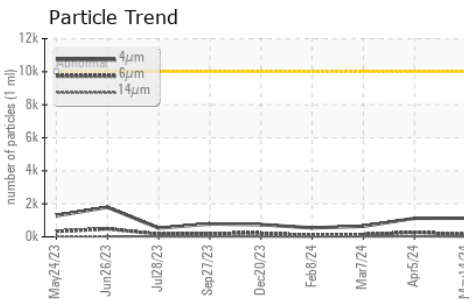
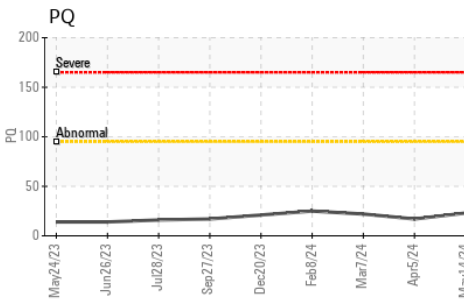
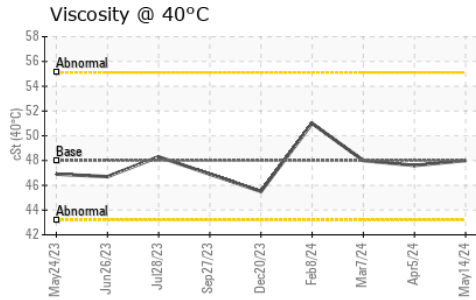
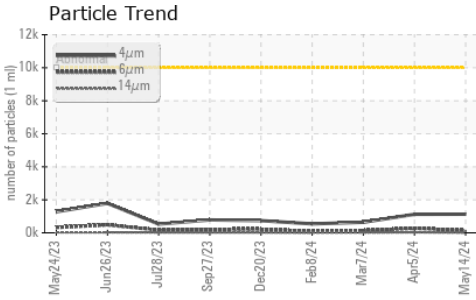
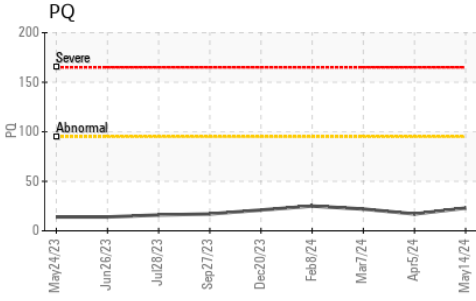
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	<b>20</b>	27	24
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>1127</b>	1122	640
Particles >6µm	ASTM D7647	>2500	<b>137</b>	272	138
Particles >14µm	ASTM D7647	>320	<b>11</b>	30	16
Particles >21µm	ASTM D7647	>80	<b>4</b>	6	7
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>17/14/11</b>	17/15/12	16/14/11

# OIL ANALYSIS REPORT

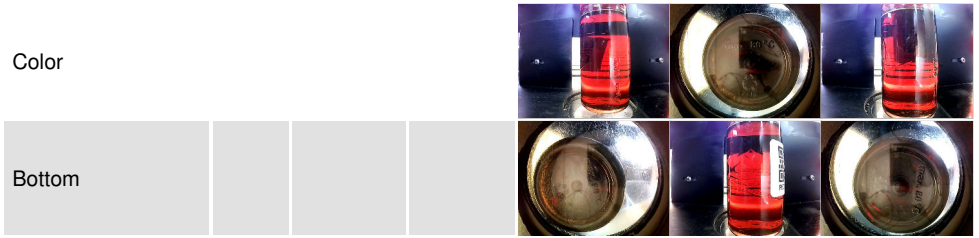


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>1.08</b>	1.09	1.17

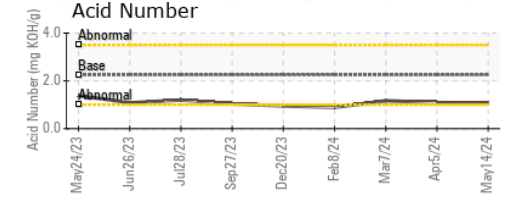
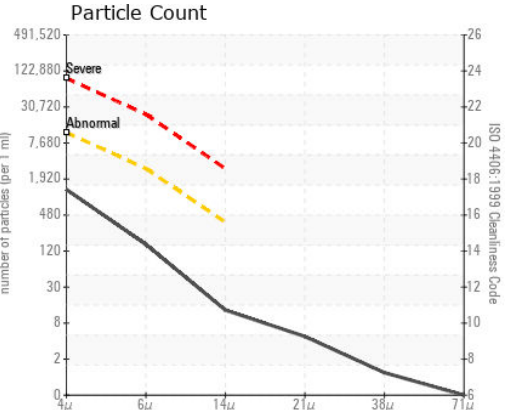
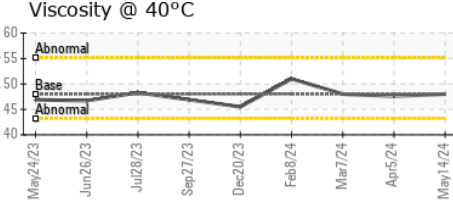
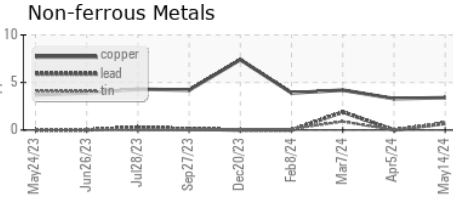
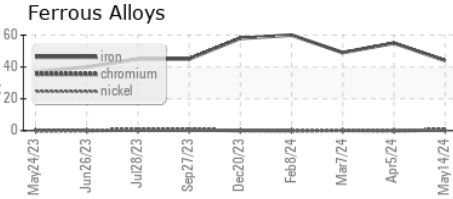
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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
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>48.0</b>	47.6	48.0

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003798 **Received** : 17 May 2024  
**Lab Number** : **06182661** **Tested** : 22 May 2024  
**Unique Number** : 11033987 **Diagnosed** : 22 May 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)