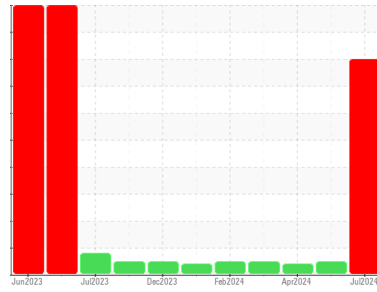




# PROBLEM SUMMARY

Machine Id  
**JOHN DEERE 624L 624L UNIT 11**  
 Component  
**Hydraulic System**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

Sample Rating Trend

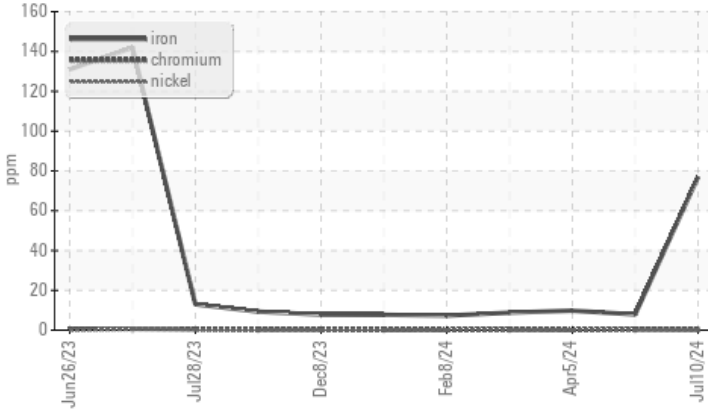


**WEAR**

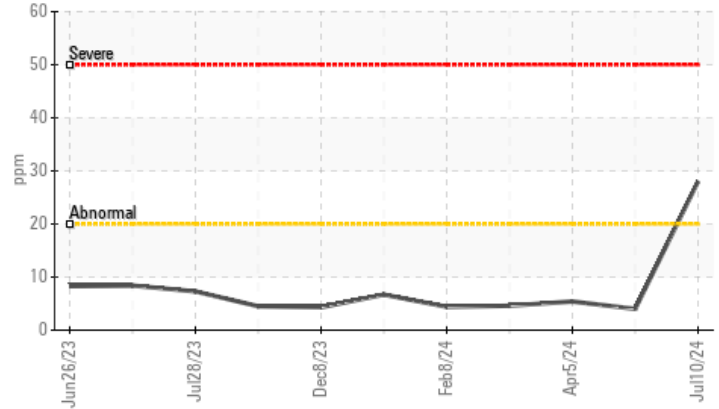


## COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Silicon (ppm)



## RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ <b>77</b>	8	10
Silicon	ppm	ASTM D5185m	>20	▲ <b>28</b>	4	5
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	NONE	▲ MODER

Customer Id: MORDAL  
 Sample No.: PE0003867  
 Lab Number: 06235767  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

NORMAL



**14 May 2024 Diag: Don Baldrige**

Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

view report



VIS DEBRIS



**05 Apr 2024 Diag: Don Baldrige**

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



NORMAL



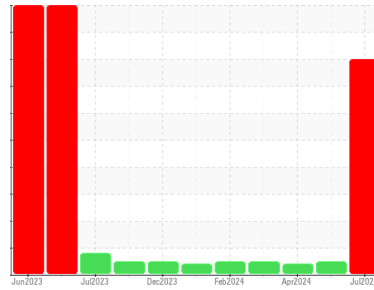
**07 Mar 2024 Diag: Doug Bogart**

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Sample Rating Trend



Machine Id  
**JOHN DEERE 624L 624L UNIT 11**  
 Component  
**Hydraulic System**  
 Fluid  
**TDH FLUID SAE 75W80 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

### ▲ Wear

A sharp increase in the iron level is noted.

### ▲ Contamination

Elemental level of silicon (Si) above normal. Moderate concentration of visible dirt/debris present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PE0003867</b>	PE0003802	PE0003816
Sample Date	Client Info		<b>10 Jul 2024</b>	14 May 2024	05 Apr 2024
Machine Age	hrs	Client Info	<b>11165</b>	10692	10468
Oil Age	hrs	Client Info	<b>10692</b>	10468	10261
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	NORMAL	ABNORMAL

## 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		<b>27</b>	18	16
Iron	ppm	ASTM D5185m >20	<b>▲ 77</b>	8	10
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	<1	0
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	7	5
Copper	ppm	ASTM D5185m >75	<b>6</b>	2	2
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 10	<b>2</b>	3	8
Barium	ppm	ASTM D5185m 10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 10	<b>1</b>	1	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 100	<b>76</b>	7	13
Calcium	ppm	ASTM D5185m 3500	<b>2948</b>	2039	2050
Phosphorus	ppm	ASTM D5185m 1150	<b>895</b>	824	853
Zinc	ppm	ASTM D5185m 1150	<b>1100</b>	873	951
Sulfur	ppm	ASTM D5185m 5000	<b>3308</b>	3125	3172

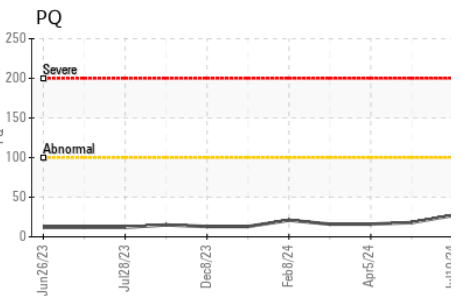
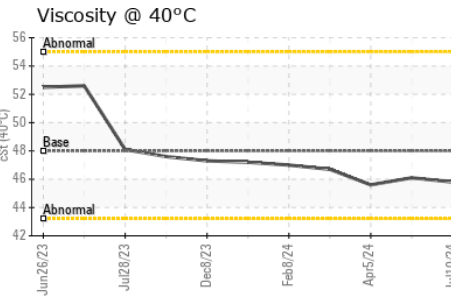
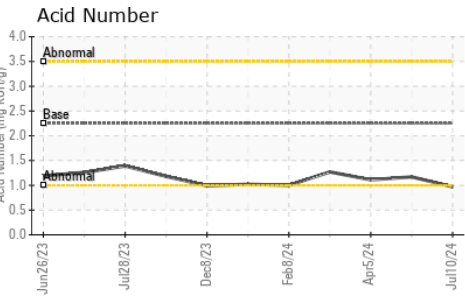
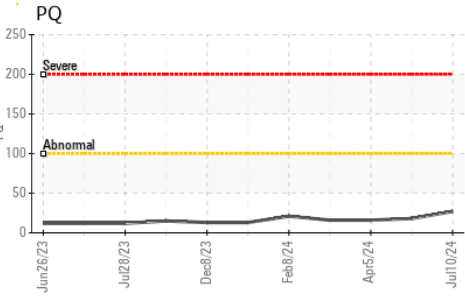
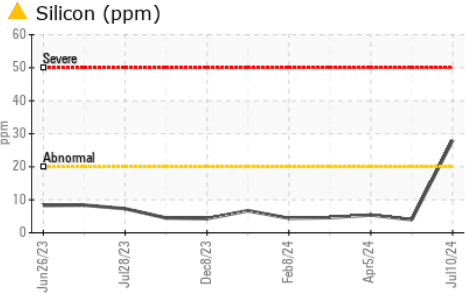
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>▲ 28</b>	4	5
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	0

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>---</b>	1916	---
Particles >6µm	ASTM D7647	>1300	<b>---</b>	220	---
Particles >14µm	ASTM D7647	>160	<b>---</b>	10	---
Particles >21µm	ASTM D7647	>40	<b>---</b>	2	---
Particles >38µm	ASTM D7647	>10	<b>---</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>---</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>---</b>	18/15/10	---

# OIL ANALYSIS REPORT

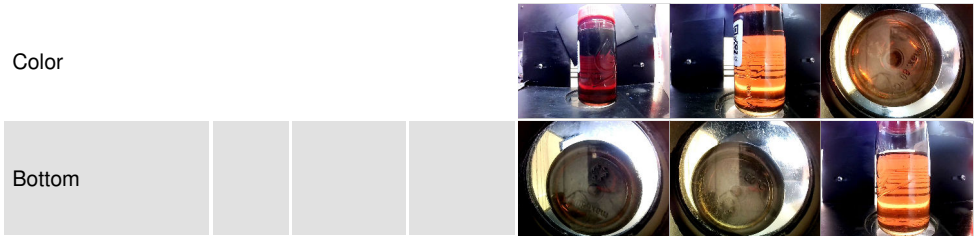


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	<b>0.97</b>	1.17	1.11

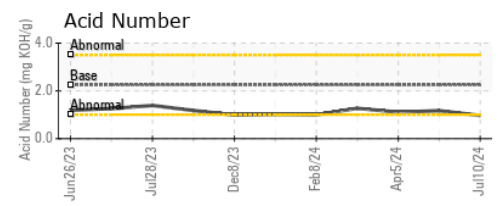
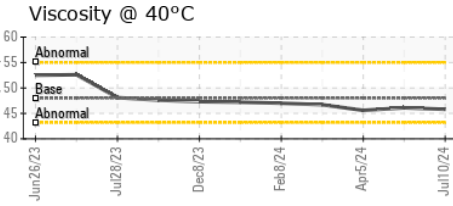
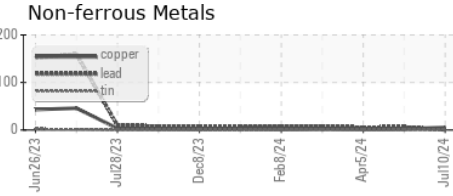
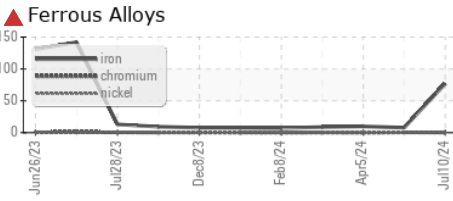
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	NONE	<b>▲ MODER</b>
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>45.8</b>	46.1	45.6

SAMPLE IMAGES		method	limit/base	current	history1	history2
---------------	--	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0003867  
**Lab Number** : **06235767**  
**Unique Number** : 11124601  
**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)