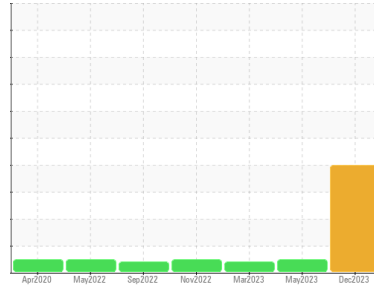


# PROBLEM SUMMARY

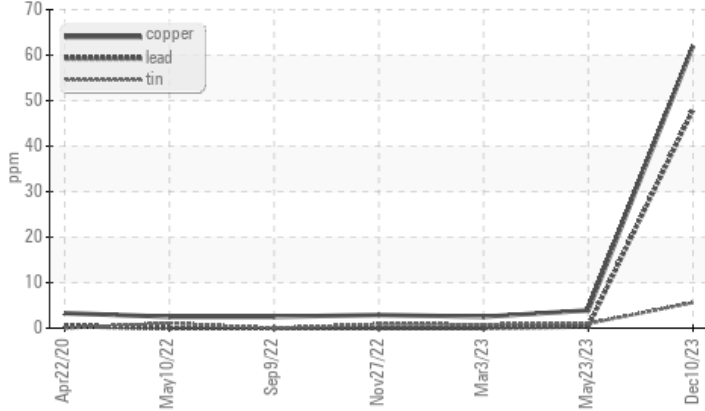
Sample Rating Trend



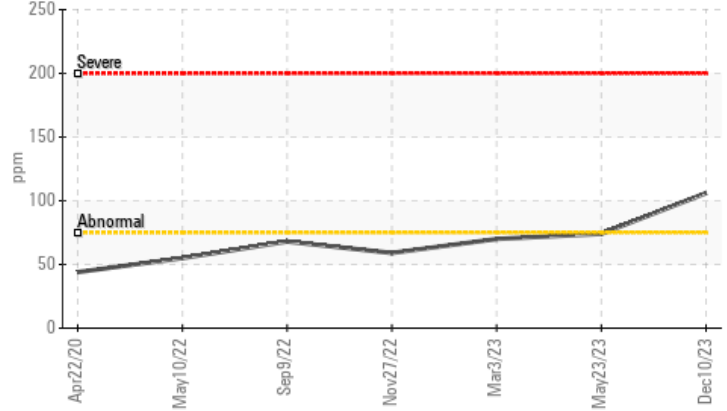
Machine Id  
**26641**  
Component  
**Rear Differential**  
Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



### ▲ Silicon (ppm)



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ABNORMAL
Lead	ppm	ASTM D5185m	>25	▲ 48	<1	0
Copper	ppm	ASTM D5185m	>100	▲ 62	4	2
Tin	ppm	ASTM D5185m	>10	▲ 6	1	<1
Silicon	ppm	ASTM D5185m	>75	▲ 106	74	70

Customer Id: PERGEODE  
Sample No.: PCA0103358  
Lab Number: 06032005  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 23 May 2023 Diag: Don Baldrige

NORMAL



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 condition of the oil is acceptable for the time in service.

view report



### 03 Mar 2023 Diag: Don Baldrige

VIS DEBRIS



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

view report



### 27 Nov 2022 Diag: Don Baldrige

NORMAL



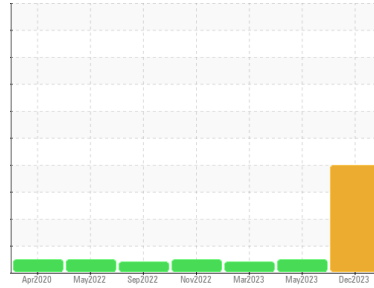
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**26641**  
 Component  
**Rear Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## DIAGNOSIS

- ▲ **Recommendation**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- ▲ **Wear**  
 Bearing and/or bushing wear is indicated.
- ▲ **Contamination**  
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- ▲ **Fluid Condition**  
 The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0103358</b>	PCA0099461	PCA0094442
Sample Date	Client Info	<b>10 Dec 2023</b>	23 May 2023	03 Mar 2023
Machine Age	mls	Client Info	<b>401953</b>	382684
Oil Age	mls	Client Info	<b>0</b>	382684
Oil Changed	Client Info	<b>N/A</b>	Not Changd	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

method	limit/base	current	history1	history2	
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>500	<b>285</b>	272	271
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	7	8
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	4
Lead	ppm	ASTM D5185m	>25	▲ <b>48</b>	<1	0
Copper	ppm	ASTM D5185m	>100	▲ <b>62</b>	4	2
Tin	ppm	ASTM D5185m	>10	▲ <b>6</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	400	<b>384</b>	210	196
Barium	ppm	ASTM D5185m	200	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>11</b>	9	8
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	2	<1
Calcium	ppm	ASTM D5185m	150	<b>8</b>	109	117
Phosphorus	ppm	ASTM D5185m	1650	<b>1233</b>	1293	1284
Zinc	ppm	ASTM D5185m	125	<b>0</b>	12	15
Sulfur	ppm	ASTM D5185m	22500	<b>23335</b>	21294	21093

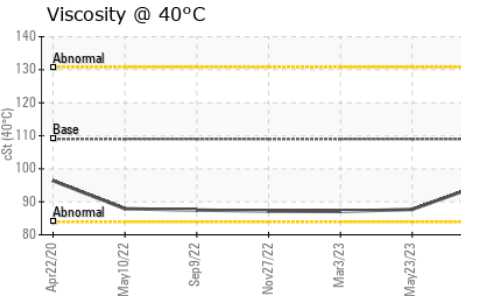
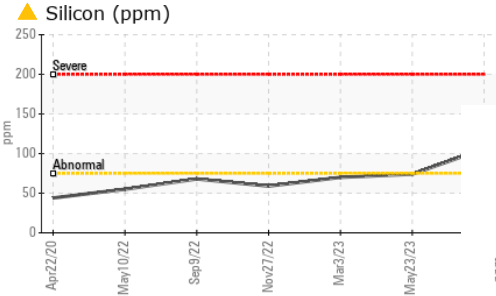
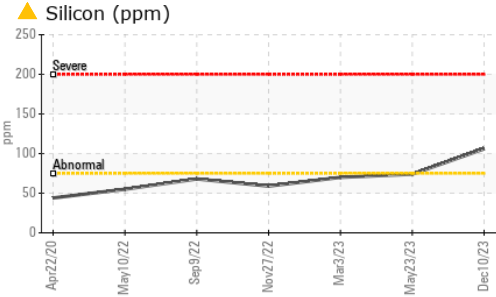
## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>75	▲ <b>106</b>	74	70
Sodium	ppm	ASTM D5185m		<b>12</b>	8	5
Potassium	ppm	ASTM D5185m	>20	<b>275</b>	13	6

## VISUAL

method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	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>LIGHT</b>	NONE	▲ MODER
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	>.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

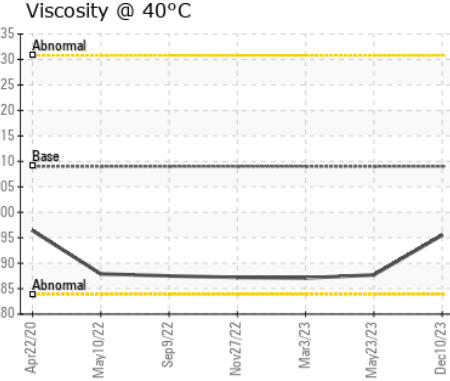
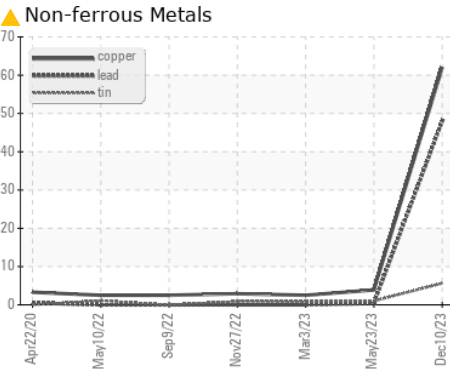
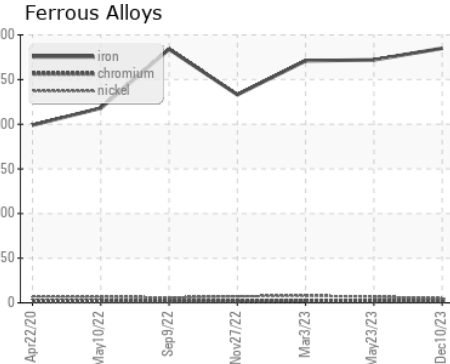


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	109	<b>95.5</b>	87.7	87.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color				no image	no image	no image
Bottom				no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103358  
**Lab Number** : **06032005**  
**Unique Number** : 10781796  
**Test Package** : FLEET

**PERDUE FARMS - GEORGETOWN**  
 20621 SAVANAH RD  
 GEORGETOWN, DE  
 US 19947  
 Contact: ROBERT LOCKWOOD  
 Robert.Lockwood@Perdue.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)

T:  
F: