

# PROBLEM SUMMARY

## Sample Rating Trend



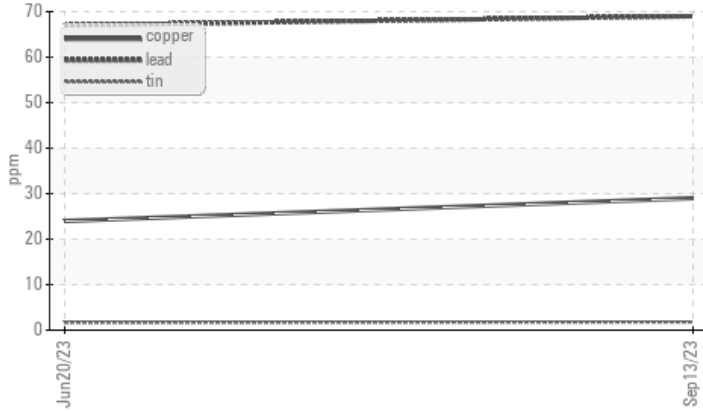
**WEAR**



Machine Id  
**2126995**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Lead	ppm	ASTM D5185m	>25	▲ <b>69</b>	▲ 67	---
Debris	scalar	*Visual	NONE	▲ <b>MODER</b>	▲ MODER	---

Customer Id: PERLEWNC  
 Sample No.: PCA0104019  
 Lab Number: 05954353  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@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

**20 Jun 2023 Diag: Don Baldrige**

### WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The lead level is abnormal. All other 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



# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**2126995**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 75W90 (--- QTS)**

## DIAGNOSIS

- ▲ Recommendation**  
 No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.
- ▲ Wear**  
 The lead level is abnormal. All other component wear rates are normal.
- ▲ Contamination**  
 Moderate concentration of visible dirt/debris present in the oil.
- 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>PCA0104019</b>	PCA0099016	---
Sample Date	Client Info	<b>13 Sep 2023</b>	20 Jun 2023	---
Machine Age	mls	Client Info	<b>100000</b>	87340
Oil Age	mls	Client Info	<b>100000</b>	87340
Oil Changed	Client Info	<b>Changed</b>	Not Changd	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>500	<b>304</b>	280	---
Chromium	ppm	ASTM D5185m	>10	<b>4</b>	4	---
Nickel	ppm	ASTM D5185m	>10	<b>4</b>	4	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	4	---
Lead	ppm	ASTM D5185m	>25	<b>▲ 69</b>	▲ 67	---
Copper	ppm	ASTM D5185m	>100	<b>29</b>	24	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	400	<b>113</b>	113	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	5	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>16</b>	15	---
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	1	---
Calcium	ppm	ASTM D5185m	150	<b>17</b>	18	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1091</b>	1102	---
Zinc	ppm	ASTM D5185m	125	<b>0</b>	17	---
Sulfur	ppm	ASTM D5185m	22500	<b>25056</b>	31359	---

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>75	<b>50</b>	48	---
Sodium	ppm	ASTM D5185m		<b>12</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	---

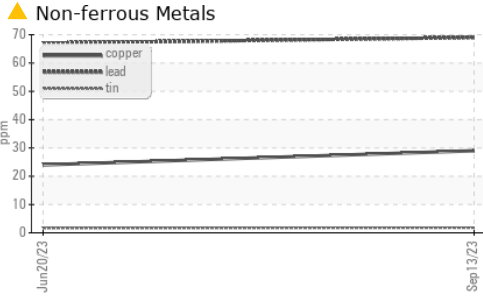
## VISUAL

method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

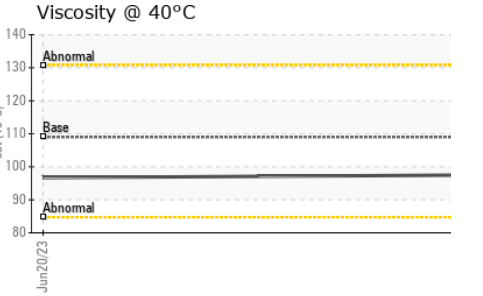
## FLUID PROPERTIES

method	limit/base	current	history1	history2		
Visc @ 40°C	cSt	ASTM D445	109	<b>97.5</b>	96.7	---

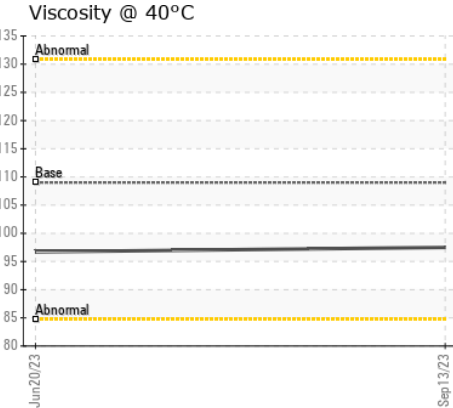
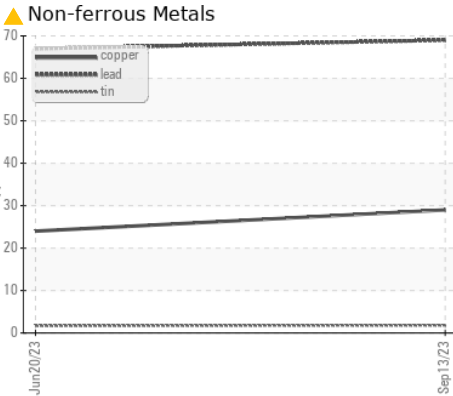
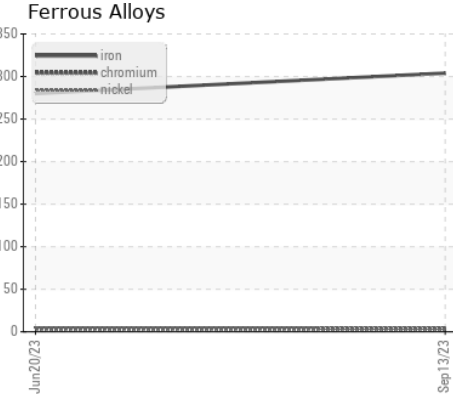
# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
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.** : PCA0104019 **Received** : 18 Sep 2023  
**Lab Number** : 05954353 **Diagnosed** : 20 Sep 2023  
**Unique Number** : 10655566 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET

**PERDUE FARMS - Lewiston**  
 210 GRIFFINS QUARTER RD  
 LEWISTON, NC  
 US 27849  
 Contact: NELSON WALLACE  
 nelson.wallace2@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: