



# PROBLEM SUMMARY

Sample Rating Trend



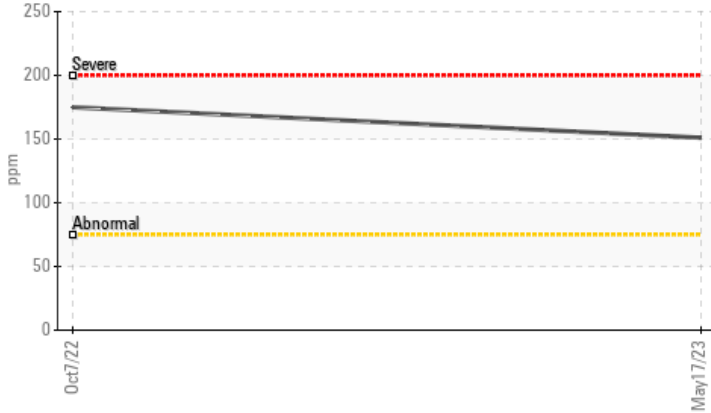
Machine Id  
**TD-302**

Component  
**Rear Differential**

Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ 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	ABNORMAL	---
Silicon	ppm	ASTM D5185m >75	▲ 151
			▲ 175
			---

Customer Id: ECPROA  
Sample No.: WC0705352  
Lab Number: 05901619  
Test Package: FLEET



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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**07 Oct 2022 Diag: Jonathan Hester**

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the oil is acceptable for the time in service.

view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**TD-302**

Component  
**Rear Differential**

Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/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>WC0705352</b>	WC0588221	---
Sample Date	Client Info		<b>17 May 2023</b>	07 Oct 2022	---
Machine Age	mls	Client Info	<b>106399</b>	96710	---
Oil Age	mls	Client Info	<b>10000</b>	96710	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>208</b>	281	---
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>10	<b>9</b>	11	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	4	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>1</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	400	<b>129</b>	139	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>5</b>	5	---
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	2	---
Calcium	ppm	ASTM D5185m	150	<b>9</b>	4	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1002</b>	979	---
Zinc	ppm	ASTM D5185m	125	<b>9</b>	14	---
Sulfur	ppm	ASTM D5185m	22500	<b>24074</b>	23572	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	▲ <b>151</b>	▲ 175	---
Sodium	ppm	ASTM D5185m		<b>3</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	8	---

## VISUAL

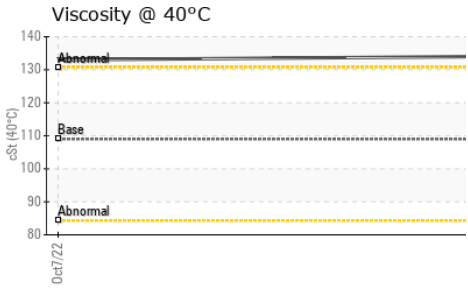
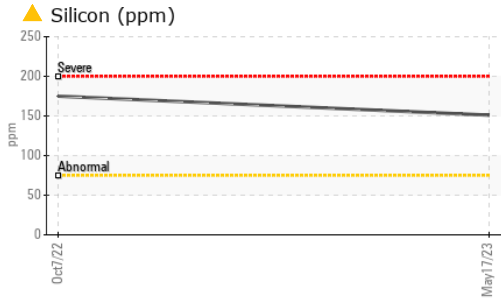
	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>MODER</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
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>134</b>	133	---

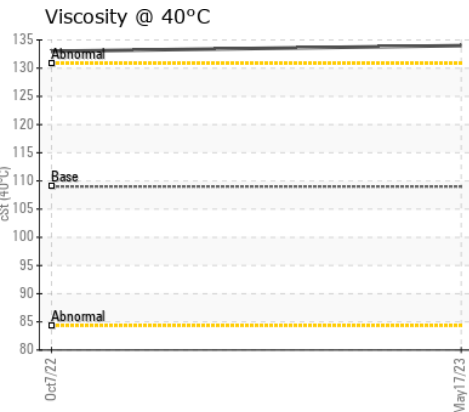
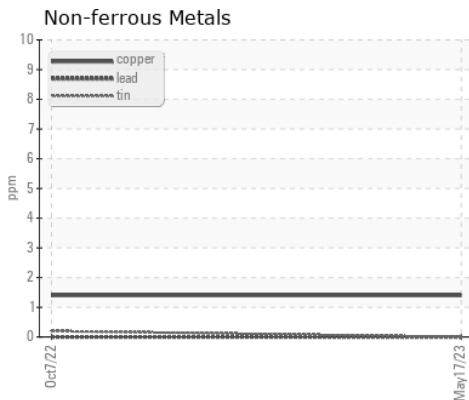
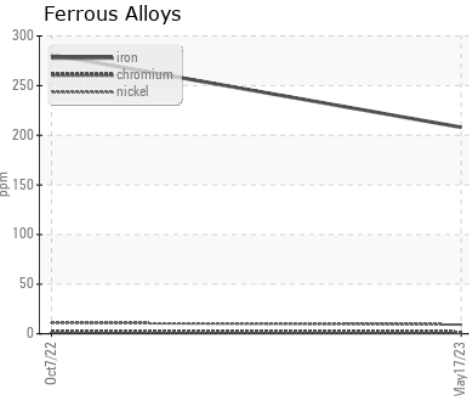


# OIL ANALYSIS REPORT



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.** : WC0705352      **Received** : 18 Jul 2023  
**Lab Number** : **05901619**      **Diagnosed** : 20 Jul 2023  
**Unique Number** : 10562975      **Diagnostician** : Don Baldrige  
**Test Package** : FLEET ( Additional Tests: PrtCount )

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)

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