

# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**DT862**  
 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>PCA0124370</b>	PCA0111656	---
Sample Date	Client Info		<b>13 Jun 2024</b>	03 Jan 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### CONTAMINATION

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

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>227</b>	211	---
Chromium	ppm	ASTM D5185m >10	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m >10	<b>6</b>	4	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	3	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m >100	<b>&lt;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>159</b>	163	---
Barium	ppm	ASTM D5185m 200	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m 12	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>2</b>	3	---
Magnesium	ppm	ASTM D5185m 12	<b>0</b>	2	---
Calcium	ppm	ASTM D5185m 150	<b>0</b>	23	---
Phosphorus	ppm	ASTM D5185m 1650	<b>1050</b>	1165	---
Zinc	ppm	ASTM D5185m 125	<b>4</b>	0	---
Sulfur	ppm	ASTM D5185m 22500	<b>22956</b>	25213	---

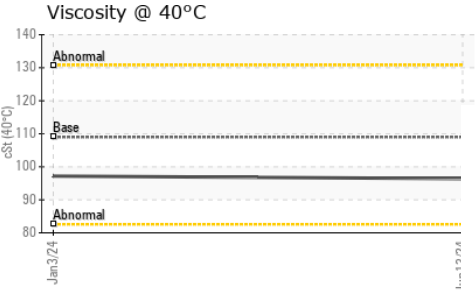
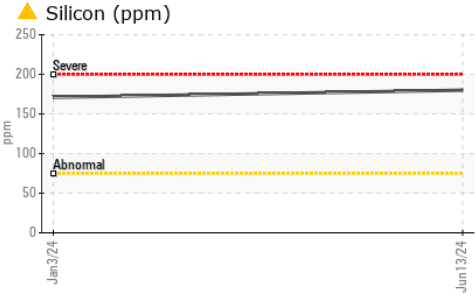
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>▲ 180</b>	▲ 171	---
Sodium	ppm	ASTM D5185m	<b>1</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	4	---

### VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	LIGHT	---
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	---

# OIL ANALYSIS REPORT



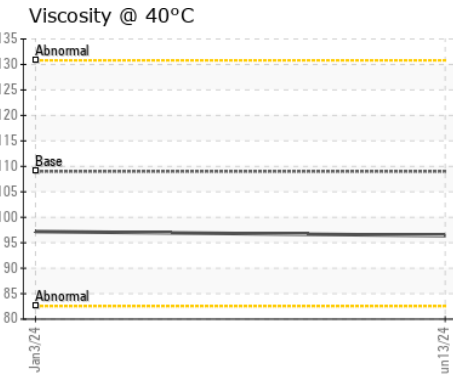
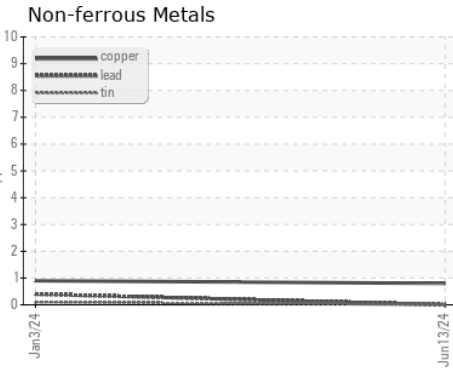
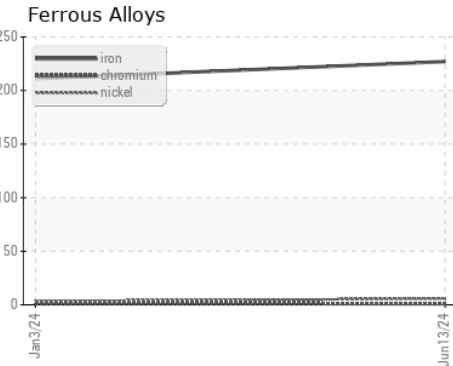
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt ASTM D445	109	<b>96.4</b>	97.2	---

### 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.** : PCA0124370  
**Lab Number** : 06226597  
**Unique Number** : 11110090  
**Test Package** : FLEET

**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Don Baldrige

**NW WHITE & CO - BEAUFORT DIVISION**  
 1491 YENMASSEE HIGHWAY  
 VARNVILLE, SC  
 US 29944  
 Contact: VINCENT BULLOCK  
 bullockvince514@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)

T:  
F: