



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**DT881**  
Component  
**Front Differential**  
Fluid  
**GEAR OIL SAE 75W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0124358</b>	PCA0111641	---
Sample Date		Client Info		<b>13 Jun 2024</b>	09 Feb 2024	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>264</b>	179	---
Chromium	ppm	ASTM D5185m	>8	<b>2</b>	2	---
Nickel	ppm	ASTM D5185m	>20	<b>7</b>	5	---
Titanium	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

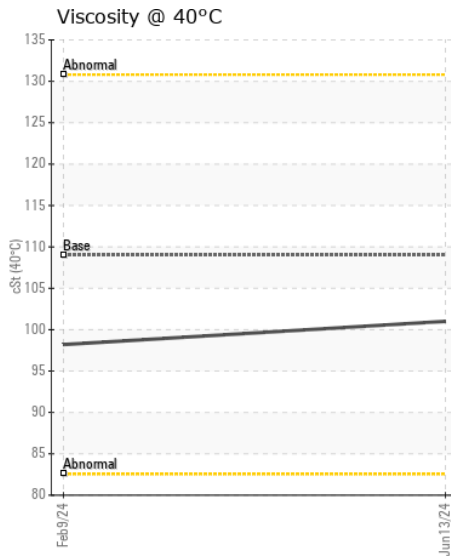
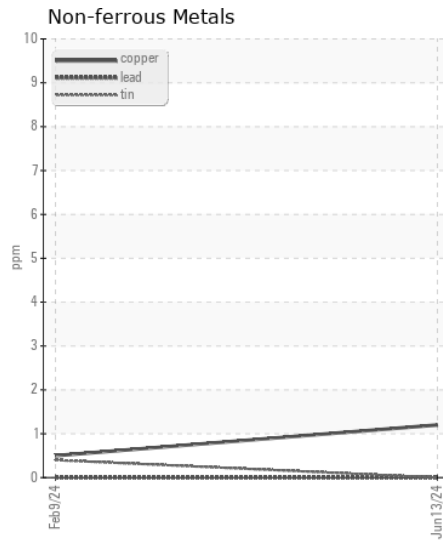
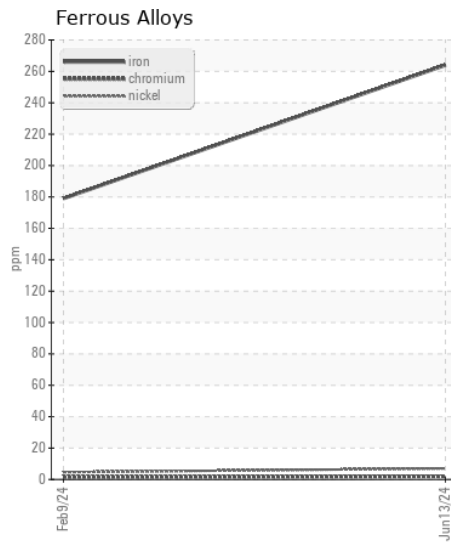
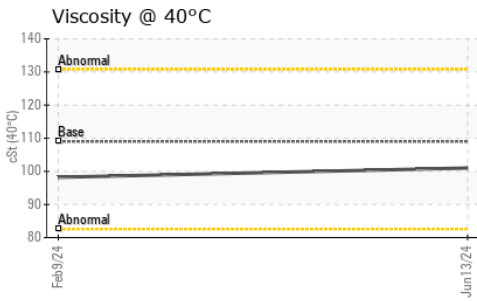
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>230	<b>162</b>	147	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
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	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	3	---
Boron	ppm	ASTM D5185m	400	<b>164</b>	174	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m	12	<b>0</b>	2	---
Calcium	ppm	ASTM D5185m	150	<b>0</b>	0	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1167</b>	1049	---
Zinc	ppm	ASTM D5185m	125	<b>4</b>	0	---
Sulfur	ppm	ASTM D5185m	22500	<b>25655</b>	23707	---
Visc @ 40°C	cSt	ASTM D445	109	<b>101</b>	98.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124358  
**Lab Number** : 06226588  
**Unique Number** : 11110081  
**Test Package** : FLEET

**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**NW WHITE & CO - BEAUFORT DIVISION**  
 1491 YENMASSEE HIGHWAY  
 VARNVILLE, SC  
 US 29944

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F:

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)