



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



Machine Id  
**DT766**  
Component  
**Rear Differential**  
Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0113213</b>	PCA0096941	PCA0091219
Sample Date		Client Info		<b>25 Jan 2024</b>	30 Jun 2023	18 Jan 2023
Machine Age	mls	Client Info		<b>179535</b>	154392	129664
Oil Age	mls	Client Info		<b>25143</b>	100590	102291
Filter Age	mls	Client Info		<b>0</b>	100590	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1200	<b>106</b>	216	185
Chromium	ppm	ASTM D5185m	>8	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>20	<b>5</b>	12	11
Titanium	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>16</b>	25	16
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

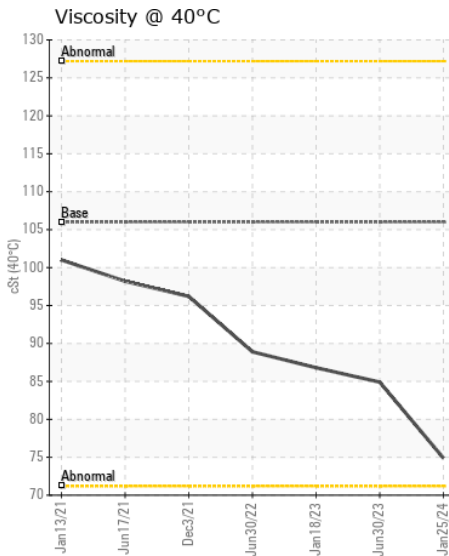
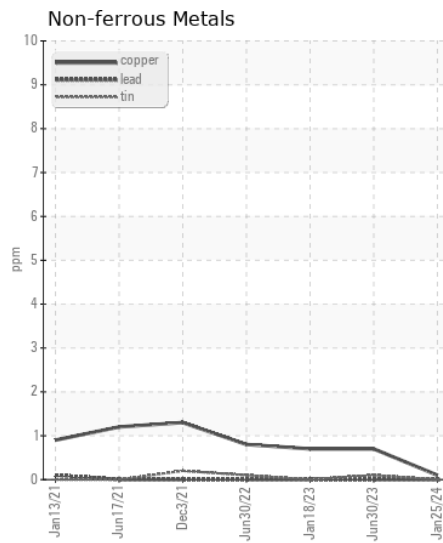
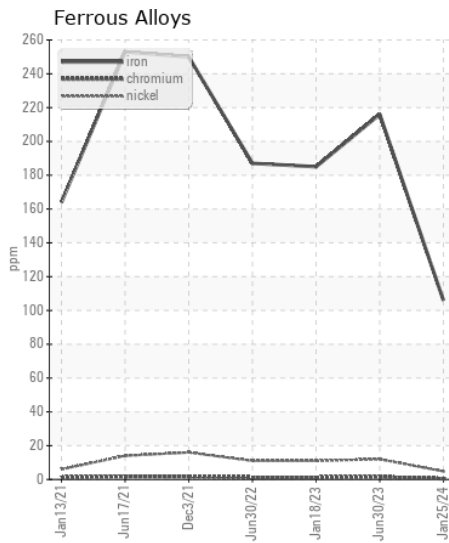
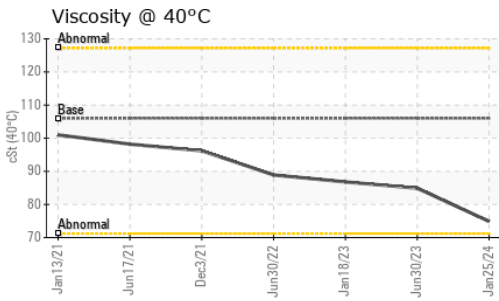
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>230	<b>22</b>	83	74
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	2	2
Boron	ppm	ASTM D5185m		<b>228</b>	223	210
Barium	ppm	ASTM D5185m		<b>1</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>23</b>	13	13
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	3	3
Magnesium	ppm	ASTM D5185m		<b>176</b>	49	47
Calcium	ppm	ASTM D5185m		<b>304</b>	124	113
Phosphorus	ppm	ASTM D5185m		<b>1198</b>	1434	1252
Zinc	ppm	ASTM D5185m		<b>268</b>	84	88
Sulfur	ppm	ASTM D5185m		<b>19835</b>	27933	24592
Visc @ 40°C	cSt	ASTM D445	106	<b>74.9</b>	84.9	86.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113213 **Received** : 29 Jan 2024  
**Lab Number** : 06073330 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10850007 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**NW WHITE & CO - ANDERSON DIVISION**  
 2605 RIVER RD  
 PIEDMONT, SC  
 US 29673  
 Contact: James Threatt  
 jthreatt@nwwhite.com  
 T: (864)918-4646  
 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)