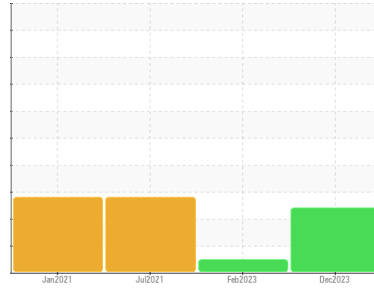


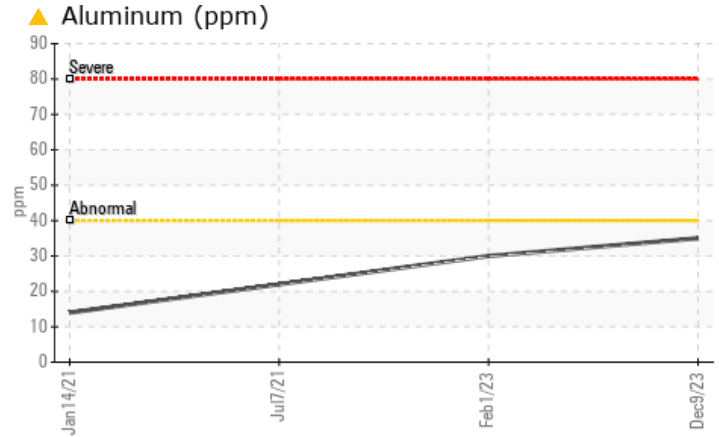
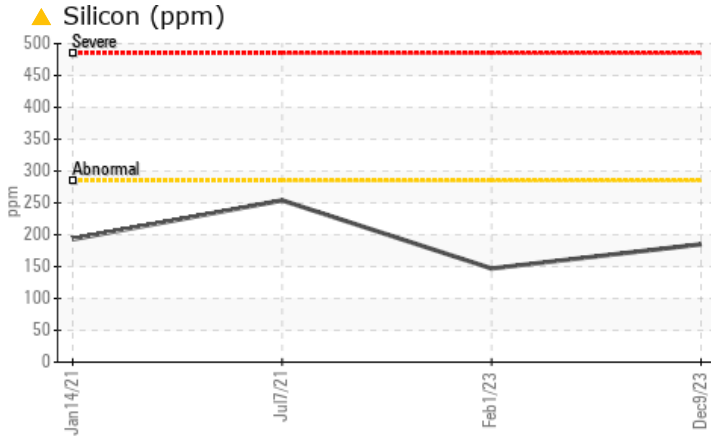
# PROBLEM SUMMARY

Sample Rating Trend



Machine Id  
**DT769**  
Component  
**Front Differential**  
Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ABNORMAL
Aluminum	ppm	ASTM D5185m	>40	▲ 35	30	▲ 22
Silicon	ppm	ASTM D5185m	>285	▲ 185	147	▲ 254

Customer Id: NWWCOL  
Sample No.: PCA0107502  
Lab Number: 06032940  
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

## HISTORICAL DIAGNOSIS

### 01 Feb 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



### 07 Jul 2021 Diag: Don Baldrige

DIRT



We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



### 14 Jan 2021 Diag: Jonathan Hester

DIRT



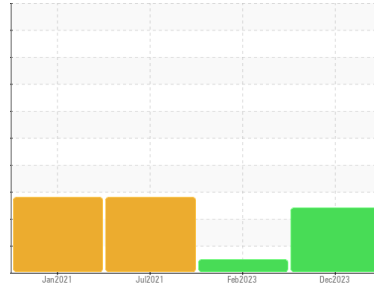
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris 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  
**DT769**  
Component  
**Front Differential**  
Fluid  
**CHEVRON DELO SYNTHETIC GEAR 75W90 (--- QTS)**

## DIAGNOSIS

**Recommendation**  
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

**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>PCA0107502</b>	PCA0090307	PCA0052646	
Sample Date	Client Info	<b>09 Dec 2023</b>	01 Feb 2023	07 Jul 2021	
Machine Age	mls	Client Info	<b>150003</b>	150003	49555
Oil Age	mls	Client Info	<b>150003</b>	150003	0
Oil Changed	Client Info	<b>Not Changd</b>	N/A	Not Changd	
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL	

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>870	<b>218</b>	170	178
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m	>25	<b>8</b>	8	8
Titanium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>40	<b>▲ 35</b>	30	▲ 22
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>60	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	>5	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<b>200</b>	229	252
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>6</b>	6	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	2	4
Magnesium	ppm	ASTM D5185m		<b>88</b>	69	1
Calcium	ppm	ASTM D5185m		<b>116</b>	106	21
Phosphorus	ppm	ASTM D5185m		<b>1416</b>	1311	1403
Zinc	ppm	ASTM D5185m		<b>108</b>	104	<1
Sulfur	ppm	ASTM D5185m		<b>22819</b>	25056	22003

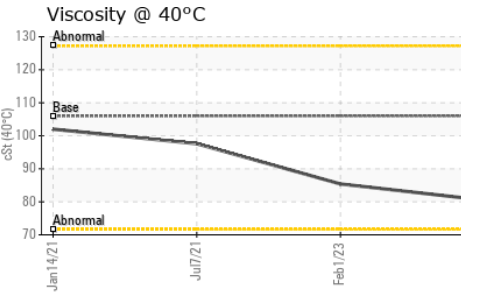
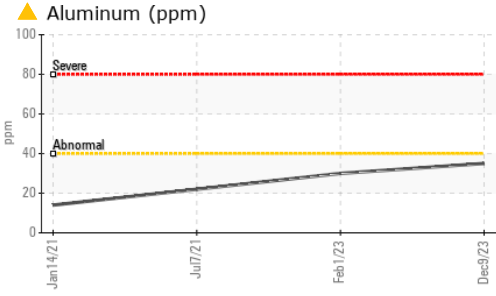
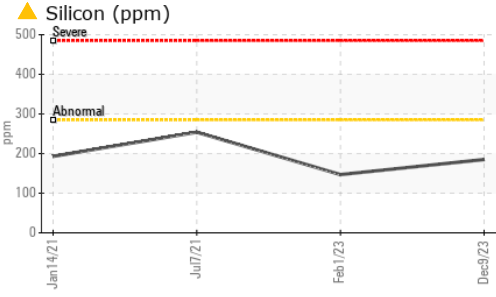
## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>285	<b>▲ 185</b>	147	▲ 254
Sodium	ppm	ASTM D5185m		<b>3</b>	4	7
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	2

## VISUAL

method	limit/base	current	history1	history2		
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	▲ MODER
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
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

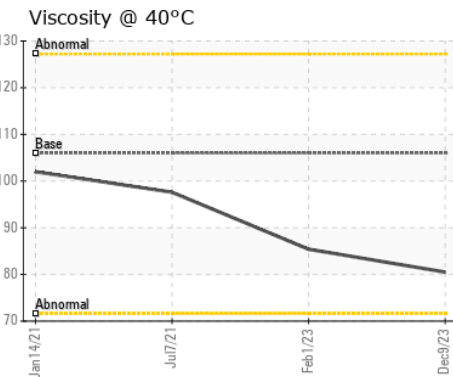
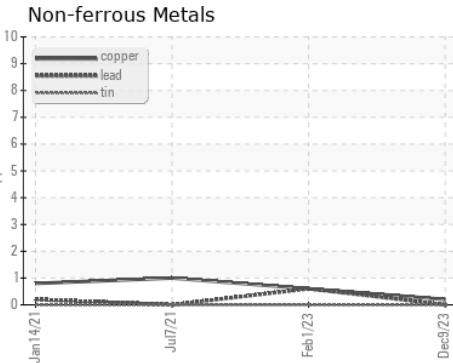
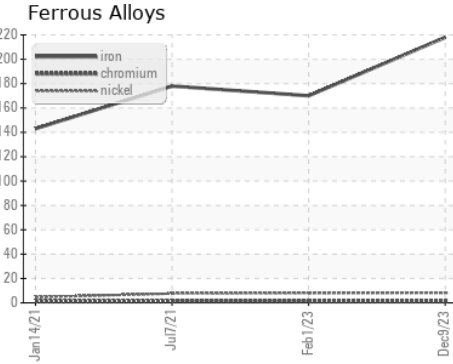
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	106	<b>80.5</b>	85.4	97.6

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0107502  
**Lab Number** : **06032940**  
**Unique Number** : 10782731  
**Test Package** : FLEET

**NW WHITE & CO - COLUMBIA DIVISION**  
 100 INDEPENDENCE BLVD  
 COLUMBIA, SC  
 US 29210  
 Contact: GEORGE EDWARDS  
 gedwards@nwwhite.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: