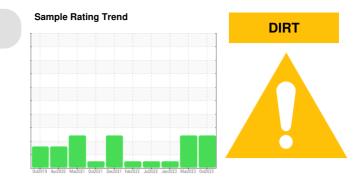


Machine Id DT643 Component

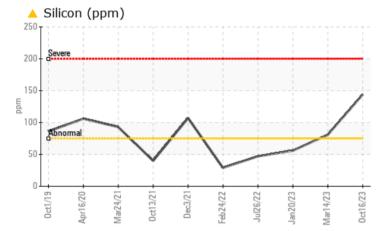
Front Differential

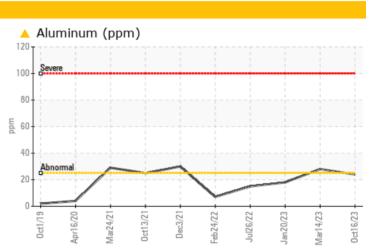
PROBLEM SUMMARY



CHEVRON RPM SYNTHETIC GEAR 75W90 (4 GAL)







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	ABNORMAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	<u> </u>	18		
Silicon	ppm	ASTM D5185m	>75	144	A 81	56		

Customer Id: NWWCOL Sample No.: PCA0107433 Lab Number: 05983274 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

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

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

HISTORICAL DIAGNOSIS



14 Mar 2023 Diag: Sean Felton

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. 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. The condition of the oil is acceptable for the time in service.



view report

20 Jan 2023 Diag: Jonathan Hester



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.

26 Jul 2022 Diag: Don Baldridge

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.



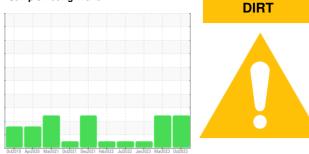




OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



current

history1

history2

Machine Id DT643

Component Front Differential

Fluid CHEVRON RPM SYNTHETIC GEAR 75W90 (4 GAL)

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.

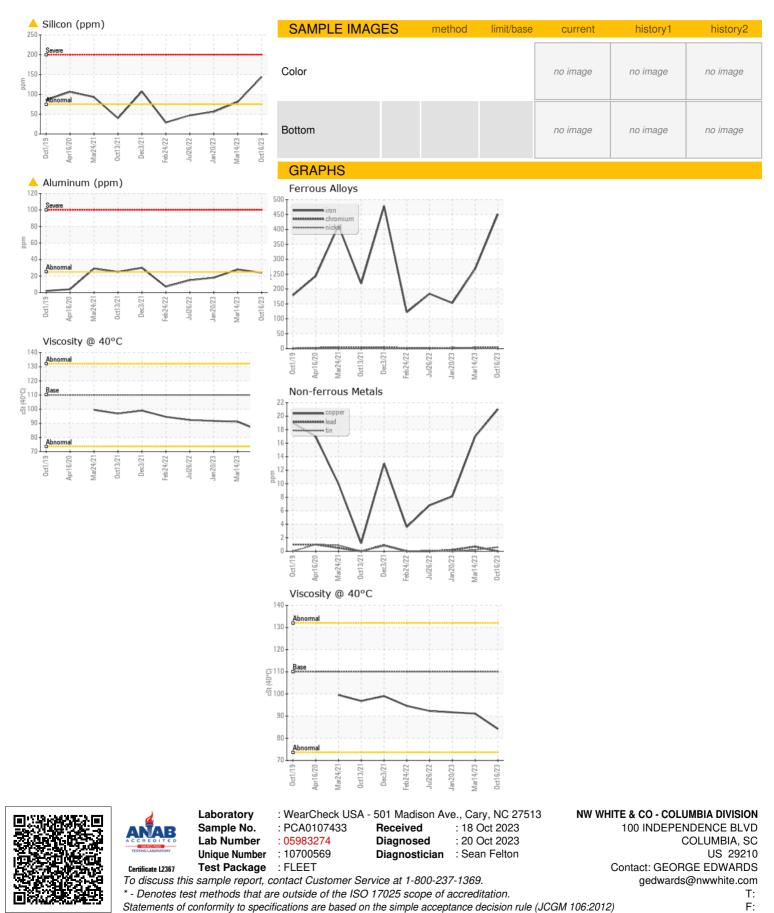
Fluid Condition

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

SAMPLE INFOR		method	limit/base	current	history i	nistory2
Sample Number		Client Info		PCA0107433	PCA0092515	PCA0087447
Sample Date		Client Info		16 Oct 2023	14 Mar 2023	20 Jan 2023
Machine Age	mls	Client Info		237542	211985	211985
Oil Age	mls	Client Info		0	145156	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
lron	ppm	ASTM D5185m	>500	451	267	153
Chromium	ppm	ASTM D5185m	>10	4	2	2
Nickel	ppm	ASTM D5185m	>10	1	<1	4
Titanium	ppm	ASTM D5185m		1	1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	<u> </u>	18
Lead	ppm	ASTM D5185m	>25	0	<1	<1
Copper	ppm	ASTM D5185m	>100	21	17	8
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		231	203	138
Barium	ppm	ASTM D5185m		1	0	1
Volybdenum	ppm	ASTM D5185m		11	6	5
Manganese	ppm	ASTM D5185m		6	5	4
Magnesium	ppm	ASTM D5185m		124	78	72
Calcium	ppm	ASTM D5185m		216	125	77
Phosphorus	ppm	ASTM D5185m		1464	1330	820
Zinc	ppm	ASTM D5185m		207	129	81
Sulfur	ppm	ASTM D5185m		23203	24265	14365
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		1 44	▲ 81	56
Sodium	ppm	ASTM D5185m	>75	5	3	14
	ppm	ASTM D5185m	. 00		6	4
Potassium	ppm			8		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	84.2	91.1	91.7
57:01) Rev: 1		2				By: Paul Riddic
,					-	



OIL ANALYSIS REPORT



Report Id: NWWCOL [WUSCAR] 05983274 (Generated: 10/22/2023 19:57:01) Rev: 1