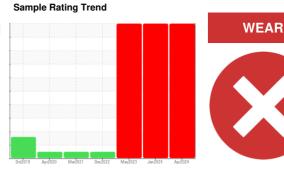


PROBLEM SUMMARY

Υ

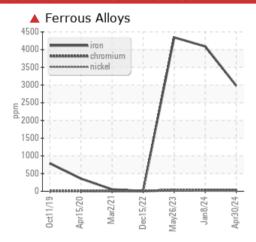


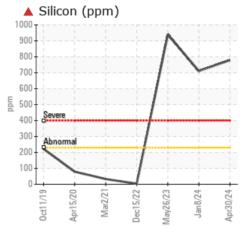


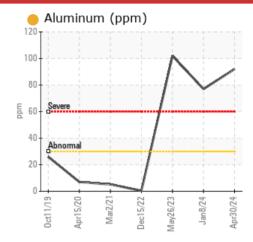
Machine Id
DT641
Component
Front Differential
Fluid

CHEVRON RPM SYNTHETIC GEAR 75W90 (4 mls)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	SEVERE			
Iron	ppm	ASTM D5185m	>1200	2982	4 092	4346			
Chromium	ppm	ASTM D5185m	>8	26	4 35	4 2			
Silicon	nnm	ASTM D5185m	>230	779	A 711	4 940			

Customer Id: NWWVAR Sample No.: PCA0124363 Lab Number: 06174766 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 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.	
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.	
Resample			?	We recommend an early resample to monitor this condition.	
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.	

HISTORICAL DIAGNOSIS

08 Jan 2024 Diag: Sean Felton

WEAR



We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



WEAR



26 May 2023 Diag: Don Baldridge

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. A sharp increase in the iron level is noted. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



NORMAL



15 Dec 2022 Diag: Don Baldridge

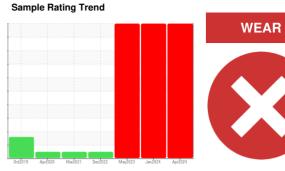
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Confirm oil type. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT





DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

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

Fluid Condition

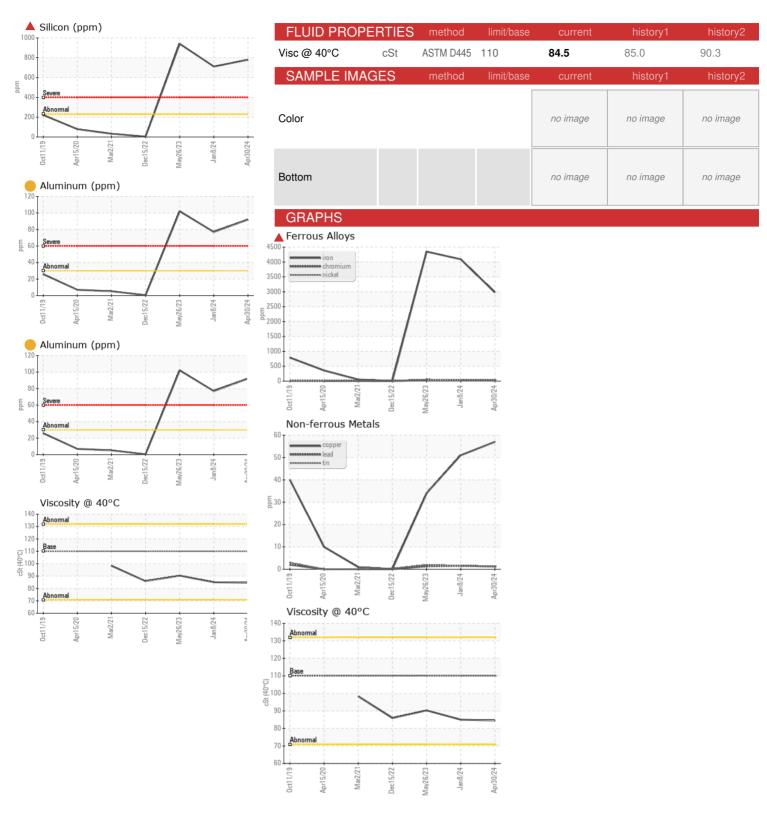
The oil is no longer serviceable due to the presence of contaminants.

TIC GEAR 75W90) (4 mls)	Oct2019	Apr2020 Mar2021	Dec2022 May2023 Jan2024	Aprž024	
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124363	PCA0111629	PCA0095246
Sample Date		Client Info		30 Apr 2024	08 Jan 2024	26 May 2023
Machine Age	mls	Client Info		95585	95585	95585
Oil Age	mls	Client Info		95585	95585	95585
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1200	2982	4 092	4346
Chromium	ppm	ASTM D5185m	>8	4 26	4 35	4 2
Nickel	ppm	ASTM D5185m	>20	8	10	12
Titanium	ppm	ASTM D5185m	>4	5	5	7
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	92	7 7	102
Lead	ppm	ASTM D5185m	>25	1	2	1
Copper	ppm	ASTM D5185m	>50	57	51	34
Гin	ppm	ASTM D5185m	>5	1	2	2
√anadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES	ррпп	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	IIIIIIVDase	40	64	3
Barium	ppm	ASTM D5105m		0	2	0
Molybdenum		ASTM D5185m		4	8	4
•	ppm	ASTM D5185m		44	49	52
Manganese	ppm			33	49	
Magnesium	ppm	ASTM D5185m				10
Calcium	ppm	ASTM D5185m		125	114	48
Phosphorus	ppm	ASTM D5185m		685	848	537
Zinc	ppm	ASTM D5185m		49	68	7
Sulfur	ppm	ASTM D5185m		20241	18621	21096
CONTAMINAN	NTS	method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m	>230	▲ 779	▲ 711	4 940
Sodium	ppm	ASTM D5185m		10	8	12
Potassium	ppm	ASTM D5185m	>20	20	18	22
VISUAL		method	limit/base		history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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

Submitted By: DAVID WEBB



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Test Package : FLEET

: PCA0124363 **Lab Number** : 06174766 Unique Number : 11020819

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 May 2024 **Tested**

: 10 May 2024 Diagnosed : 13 May 2024 - Sean Felton

1491 YENMASSEE HIGHWAY VARNVILLE, SC

NW WHITE & CO - BEAUFORT DIVISION

US 29944 Contact: VINCENT BULLOCK

bullockvince514@gmail.com T:

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)

Report Id: NWWVAR [WUSCAR] 06174766 (Generated: 05/13/2024 13:56:37) Rev: 1

Submitted By: DAVID WEBB

F: