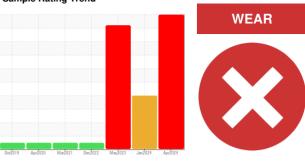


PROBLEM SUMMARY

Sample Rating Trend

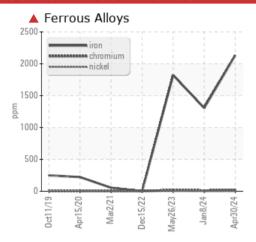


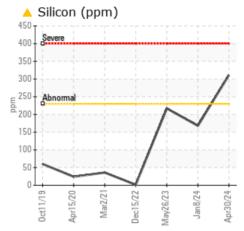


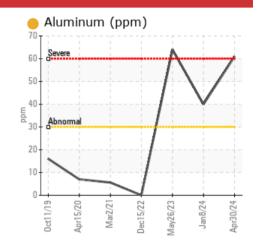
Machine Id
DT641
Component
Rear Differential
Fluid

CHEVRON RPM SYNTHETIC GEAR 75W90 (3 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	ABNORMAL	SEVERE				
Iron	ppm	ASTM D5185m	>1200	2134	<u>▲</u> 1306	▲ 1823				
Chromium	ppm	ASTM D5185m	>8	17	<u> </u>	1 9				
Silicon	nnm	ASTM D5185m	>230	A 311	A 168	A 217				

Customer Id: NWWVAR Sample No.: PCA0124362 Lab Number: 06174767 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

DIRT

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



ΔR



26 May 2023 Diag: Don Baldridge We advise that you check all areas wh

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.

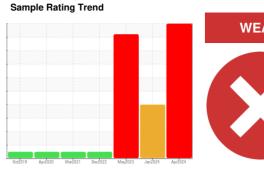




OIL ANALYSIS REPORT



Rear Differential CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)



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.

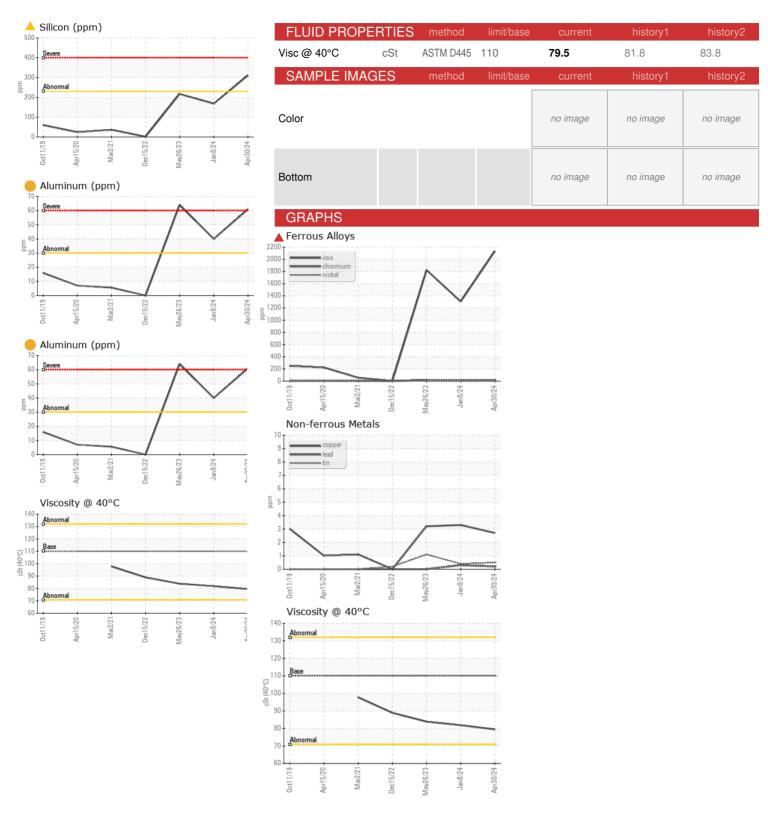
Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

TIC GEAR 75W90	(3 mls)	Oct2019	Apr2020 Mar2021	Dec2022 May2023 Jan2024	Apr2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124362	PCA0111630	PCA0095247
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		74721	74721	74721
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINAT	ION	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	2134	▲ 1306	▲ 1823
Chromium	ppm	ASTM D5185m	>8	1 7	<u> 11</u>	<u></u> 19
Nickel	ppm	ASTM D5185m	>20	<1	<1	3
Titanium	ppm	ASTM D5185m	>4	4	2	4
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	<u>61</u>	40	64
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	3	3	3
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		122	128	35
Barium	ppm	ASTM D5185m		5	5	8
Molybdenum	ppm	ASTM D5185m		7	8	1
Manganese	ppm	ASTM D5185m		25	15	22
Magnesium	ppm	ASTM D5185m		47	51	9
Calcium	ppm	ASTM D5185m		118	113	38
Phosphorus	ppm	ASTM D5185m		1035	1078	633
Zinc	ppm	ASTM D5185m		112	111	63
Sulfur	ppm	ASTM D5185m		21670	19875	20891
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>230	▲ 311	△ 168	<u>^</u> 217
Sodium	ppm	ASTM D5185m		8	6	10
Potassium	ppm	ASTM D5185m	>20	21	16	27
VISUAL		method	limit/base	current	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	MODER	NONE	NONE
		*Visual	NONE	NONE	NONE	NONE
Debris	scalar	Visuai	14014	HOHL	140142	
Debris Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE NORML	NONE NORML
Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NONE NORML NORML	NONE NORML NORML	NONE NORML NORML NEG NEG	NONE NORML NORML



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0124362 Lab Number : 06174767

Unique Number : 11020820 Test Package : FLEET

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

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

VARNVILLE, SC US 29944

NW WHITE & CO - BEAUFORT DIVISION

Contact: VINCENT BULLOCK bullockvince514@gmail.com

1491 YENMASSEE HIGHWAY

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: