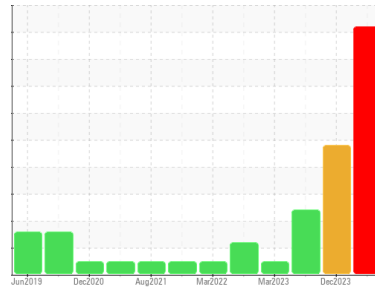


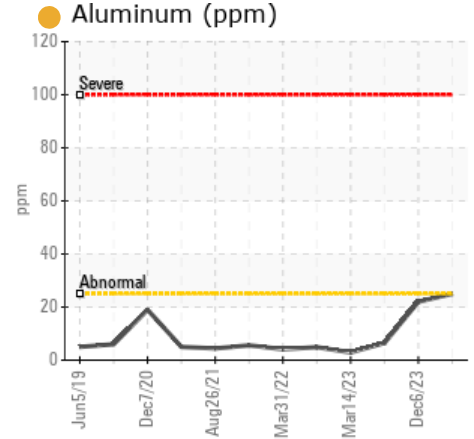
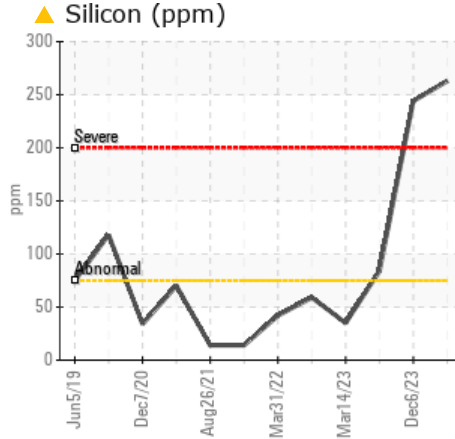
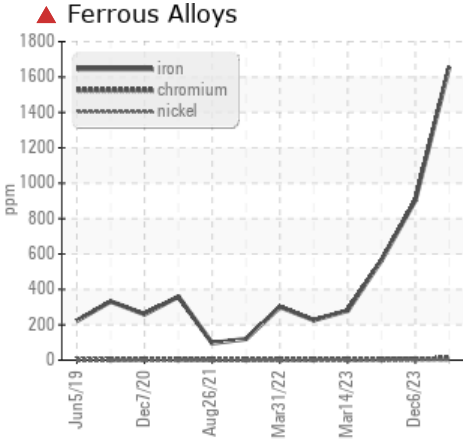
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
DT639
 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	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>500	▲ 1657	▲ 903	▲ 565
Chromium	ppm	ASTM D5185m	>10	▲ 10	7	4
Silicon	ppm	ASTM D5185m	>75	▲ 263	▲ 244	▲ 84

Customer Id: NWWVAR
 Sample No.: PCA0124356
 Lab Number: 06174764
 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

WATER



06 Dec 2023 Diag: Don Baldrige

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



DIRT



25 Jul 2023 Diag: Don Baldrige

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. Elemental level of silicon (Si) above normal. The condition of the oil is acceptable for the time in service.

[view report](#)



NORMAL



14 Mar 2023 Diag: Jonathan Hester

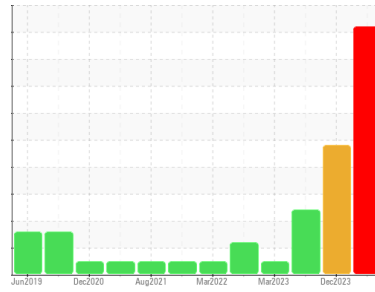
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
DT639
 Component
Front Differential
 Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (4 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0124356	PCA0111659	PCA0101871
Sample Date	Client Info	03 May 2024	06 Dec 2023	25 Jul 2023
Machine Age	mls	248163	248163	248163
Oil Age	mls	71725	71725	71725
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		SEVERE	ABNORMAL	ABNORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	▲ 1657	▲ 903	▲ 565
Chromium	ppm ASTM D5185m >10	▲ 10	7	4
Nickel	ppm ASTM D5185m >10	1	2	1
Titanium	ppm ASTM D5185m	3	2	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	● 25	● 22	6
Lead	ppm ASTM D5185m >25	3	3	4
Copper	ppm ASTM D5185m >100	47	34	41
Tin	ppm ASTM D5185m >10	2	<1	2
Vanadium	ppm ASTM D5185m	0	<1	0
Cadmium	ppm ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	225	236	233
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	20	19	22
Manganese	ppm ASTM D5185m	20	12	8
Magnesium	ppm ASTM D5185m	82	65	74
Calcium	ppm ASTM D5185m	210	171	180
Phosphorus	ppm ASTM D5185m	1364	1193	1278
Zinc	ppm ASTM D5185m	160	140	144
Sulfur	ppm ASTM D5185m	23189	20389	22861

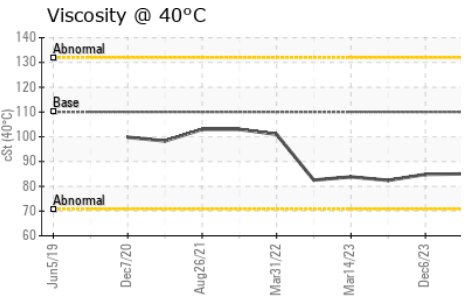
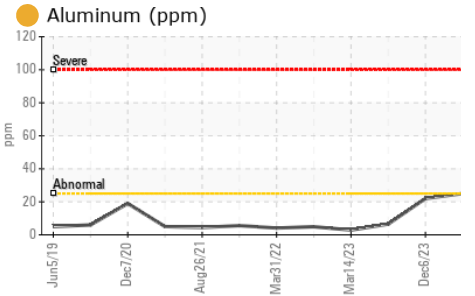
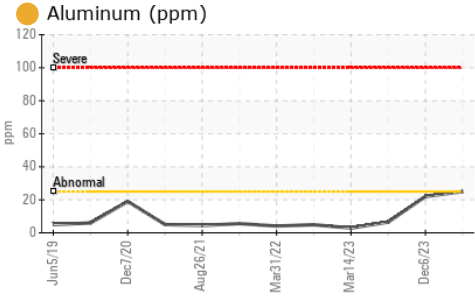
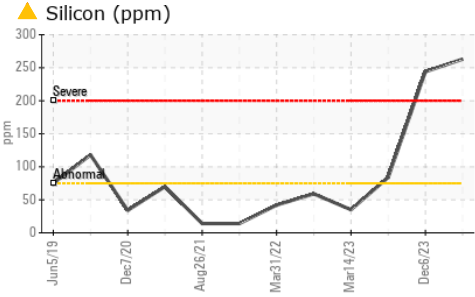
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	▲ 263	▲ 244	▲ 84
Sodium	ppm ASTM D5185m	8	5	2
Potassium	ppm ASTM D5185m >20	9	8	3

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	NONE	NONE	LIGHT
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	0.2%	NEG
Free Water	scalar *Visual	NEG	NEG	NEG

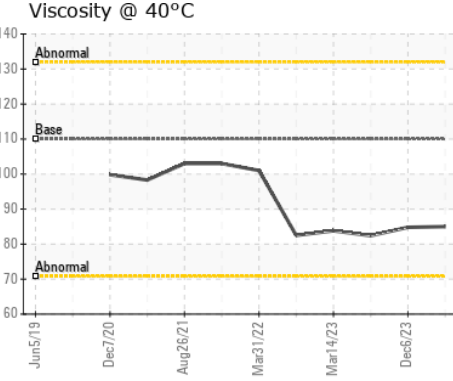
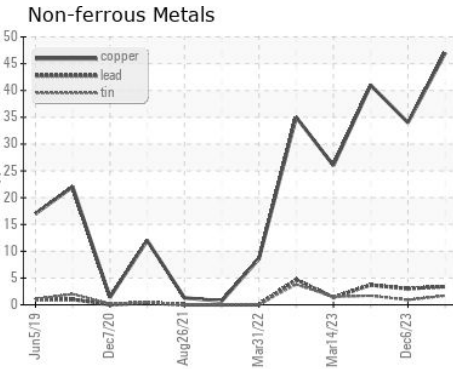
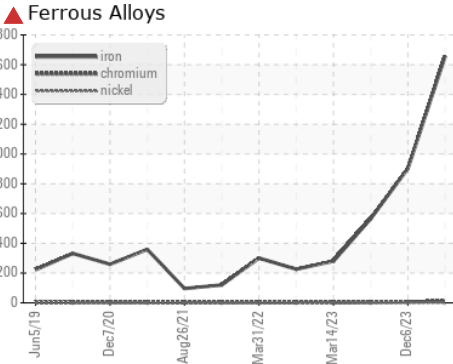
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	85.0	84.8	82.4

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. : PCA0124356
Lab Number : **06174764**
Unique Number : 11020817
Test Package : FLEET

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 13 May 2024 - Sean Felton

NW WHITE & CO - BEAUFORT DIVISION
 1491 YENMASSEE HIGHWAY
 VARNVILLE, SC
 US 29944
 Contact: VINCENT BULLOCK
 bullockvince514@gmail.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: