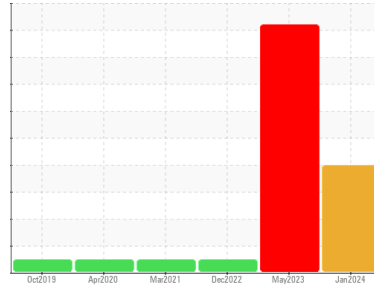


OIL ANALYSIS REPORT



Machine Id
DT641
Component
Rear Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

Sample Rating Trend



DIAGNOSIS

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

Wear
Gear wear is indicated.

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	PCA0111630	PCA0095247	PCA0076413
Sample Date	Client Info	08 Jan 2024	26 May 2023	15 Dec 2022
Machine Age	mls	Client Info	95585	95585
Oil Age	mls	Client Info	74721	74721
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	SEVERE	NORMAL

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 >1200	▲ 1306	1823	<1
Chromium	ppm ASTM D5185m >8	▲ 11	19	0
Nickel	ppm ASTM D5185m >20	<1	3	0
Titanium	ppm ASTM D5185m >4	2	4	0
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >30	▲ 40	64	0
Lead	ppm ASTM D5185m >25	<1	0	0
Copper	ppm ASTM D5185m >50	3	3	0
Tin	ppm ASTM D5185m >5	<1	1	<1
Antimony	ppm ASTM D5185m >5	---	---	---
Vanadium	ppm ASTM D5185m	<1	<1	0
Cadmium	ppm ASTM D5185m	<1	<1	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	128	35	53
Barium	ppm ASTM D5185m	5	8	0
Molybdenum	ppm ASTM D5185m	8	1	5
Manganese	ppm ASTM D5185m	15	22	0
Magnesium	ppm ASTM D5185m	51	9	25
Calcium	ppm ASTM D5185m	113	38	59
Phosphorus	ppm ASTM D5185m	1078	633	310
Zinc	ppm ASTM D5185m	111	63	42
Sulfur	ppm ASTM D5185m	19875	20891	6072

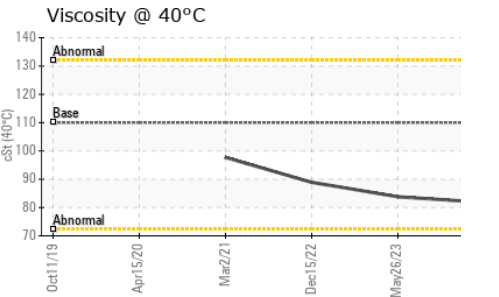
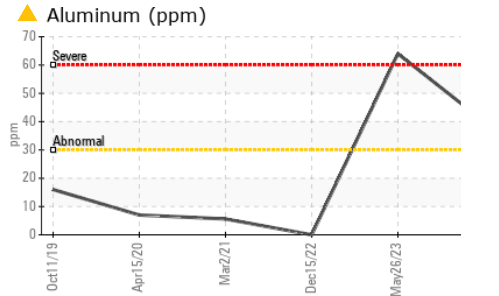
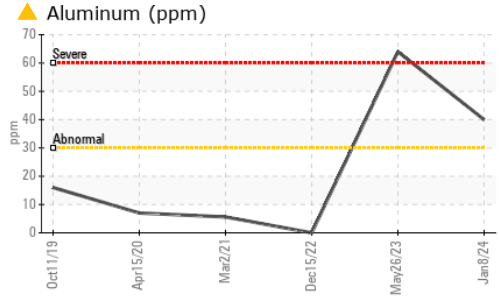
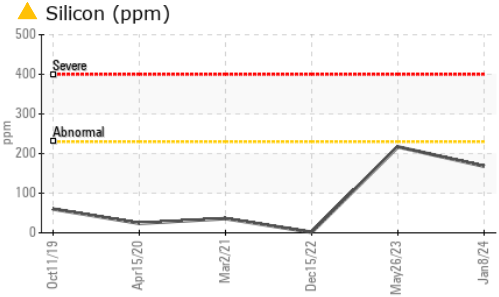
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >230	▲ 168	217	1
Sodium	ppm ASTM D5185m	6	10	0
Potassium	ppm ASTM D5185m >20	16	27	<1

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	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

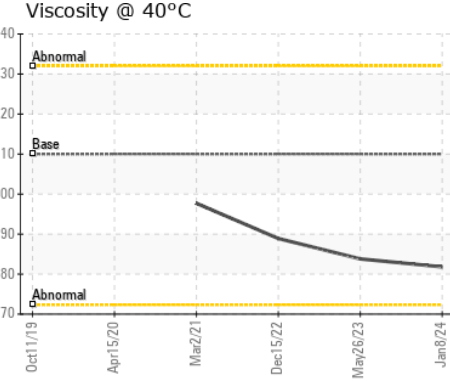
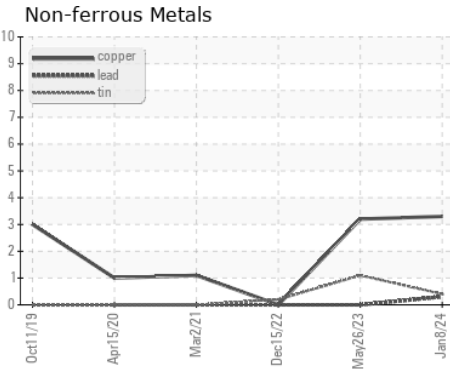
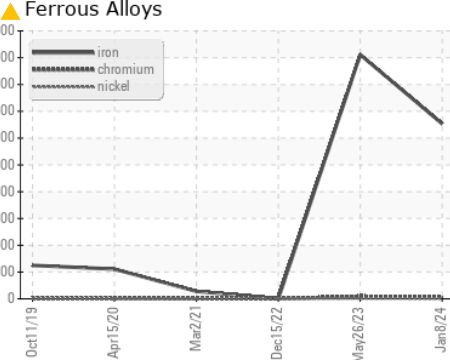
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	81.8	83.8	88.9

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0111630 **Received** : 18 Jan 2024
Lab Number : 06065200 **Diagnosed** : 22 Jan 2024
Unique Number : 10836582 **Diagnostician** : Sean Felton
Test Package : FLEET

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

Certificate L2367
 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)