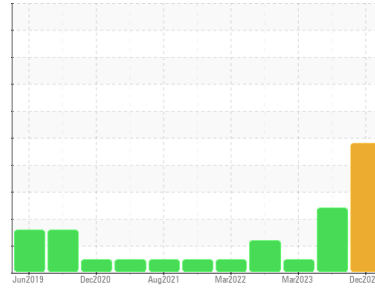


OIL ANALYSIS REPORT

Sample Rating Trend



WATER



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 an early resample to monitor this condition.

Wear

Gear wear is indicated. All other component wear rates are normal.

Contamination

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.

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		PCA0111659	PCA0101871	PCA0087477
Sample Date	Client Info		06 Dec 2023	25 Jul 2023	14 Mar 2023
Machine Age	mls	Client Info	248163	248163	248163
Oil Age	mls	Client Info	71725	71725	71725
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 903	▲ 565	280
Chromium	ppm	ASTM D5185m >10	7	4	2
Nickel	ppm	ASTM D5185m >10	2	1	0
Titanium	ppm	ASTM D5185m	2	<1	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	▲ 22	6	3
Lead	ppm	ASTM D5185m >25	3	4	1
Copper	ppm	ASTM D5185m >100	34	41	26
Tin	ppm	ASTM D5185m >10	<1	2	2
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	236	233	211
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	19	22	23
Manganese	ppm	ASTM D5185m	12	8	4
Magnesium	ppm	ASTM D5185m	65	74	73
Calcium	ppm	ASTM D5185m	171	180	189
Phosphorus	ppm	ASTM D5185m	1193	1278	1259
Zinc	ppm	ASTM D5185m	140	144	135
Sulfur	ppm	ASTM D5185m	20389	22861	24161

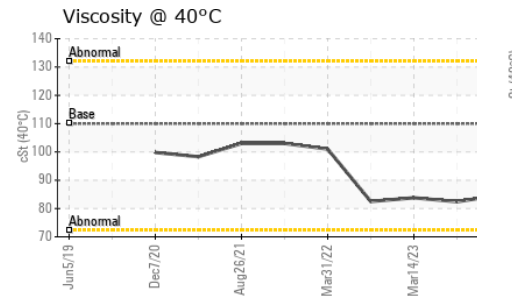
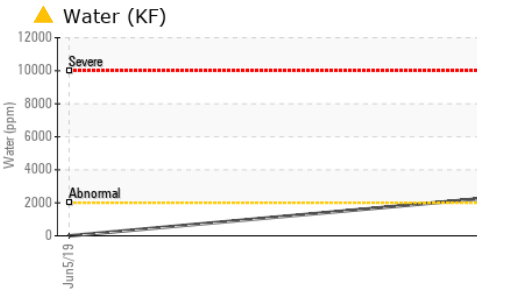
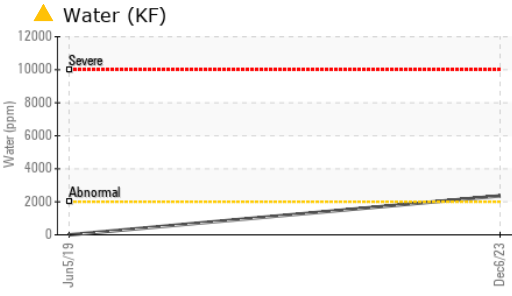
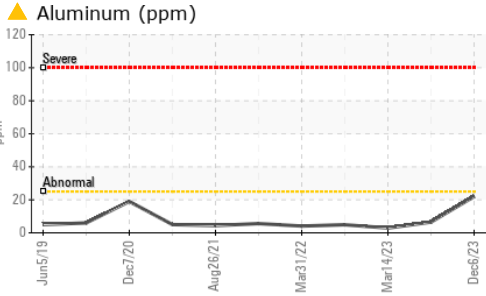
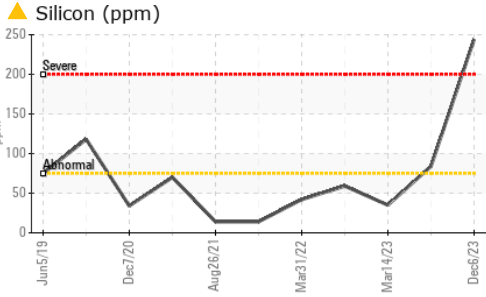
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	▲ 244	▲ 84	35
Sodium	ppm	ASTM D5185m	5	2	2
Potassium	ppm	ASTM D5185m >20	8	3	0
Water	%	ASTM D6304 >.2	▲ 0.236	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2360	---	---

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	LIGHT	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	0.2%	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

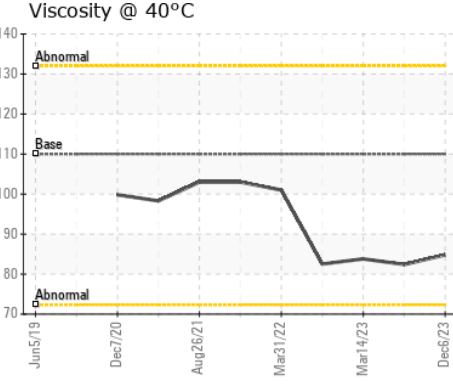
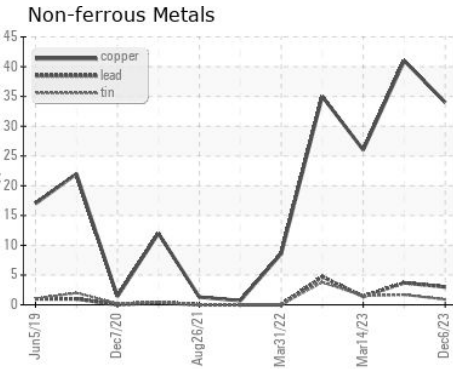
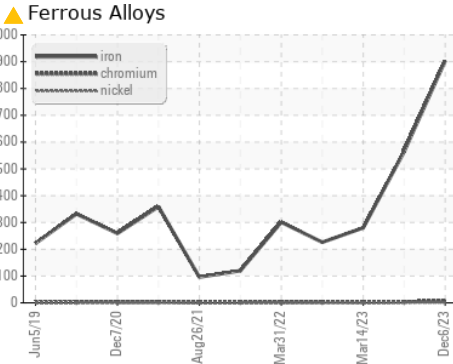
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	84.8	82.4	83.8

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. : PCA0111659 **Received** : 20 Dec 2023
Lab Number : **06040853** **Diagnosed** : 22 Dec 2023
Unique Number : 10796082 **Diagnostician** : Don Baldrige
Test Package : FLEET (Additional Tests: KF)

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)