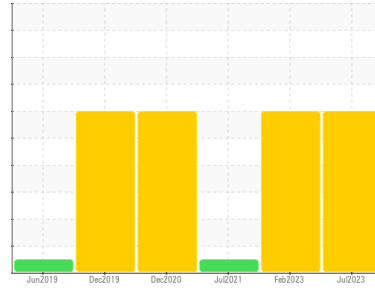


PROBLEM SUMMARY

Sample Rating Trend



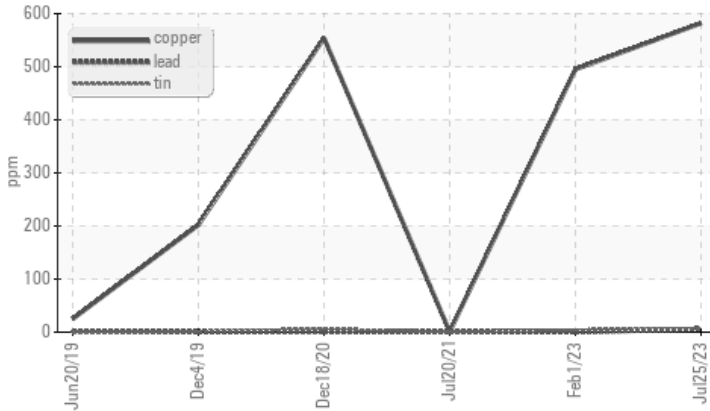
WEAR



Machine Id
DT656
Component
Front Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	SEVERE	NORMAL
Copper	ppm	ASTM D5185m	>100
	▲ 582	▲ 495	<1

Customer Id: NWWDUN
Sample No.: PCA0089165
Lab Number: 06105511
Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

01 Feb 2023 Diag: Jonathan Hester

WEAR



No corrective action is recommended at this time. We recommend an early resample to monitor this condition. The copper level is severe. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



20 Jul 2021 Diag: Jonathan Hester

NORMAL



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

view report



18 Dec 2020 Diag: Angela Borella

WEAR



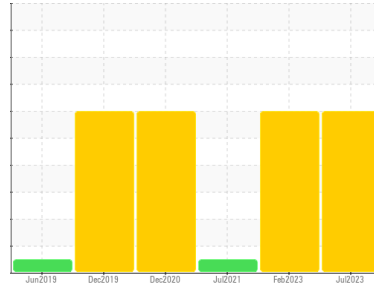
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Copper ppm levels are severe. Thrust washer and/or bearing/bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
DT656
Component
Front Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

▲ Wear

The copper level is severe.

Contamination

There is no indication of any contamination 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	PCA0089165	PCA0074082	PCA0050617
Sample Date	Client Info	25 Jul 2023	01 Feb 2023	20 Jul 2021
Machine Age	mls	148805	136173	0
Oil Age	mls	91730	57074	0
Oil Changed	Client Info	Changed	Not Changd	Not Changd
Sample Status		SEVERE	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 >500	179	167	115
Chromium	ppm ASTM D5185m >10	2	2	1
Nickel	ppm ASTM D5185m >10	<1	0	<1
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m	0	0	3
Aluminum	ppm ASTM D5185m >25	3	4	1
Lead	ppm ASTM D5185m >25	6	0	<1
Copper	ppm ASTM D5185m >100	▲ 582	▲ 495	<1
Tin	ppm ASTM D5185m >10	6	4	0
Antimony	ppm ASTM D5185m >5	---	---	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	175	221	277
Barium	ppm ASTM D5185m	<1	0	1
Molybdenum	ppm ASTM D5185m	<1	1	<1
Manganese	ppm ASTM D5185m	7	6	4
Magnesium	ppm ASTM D5185m	5	7	4
Calcium	ppm ASTM D5185m	23	24	15
Phosphorus	ppm ASTM D5185m	1451	1332	1385
Zinc	ppm ASTM D5185m	12	21	2
Sulfur	ppm ASTM D5185m	24952	26395	20610

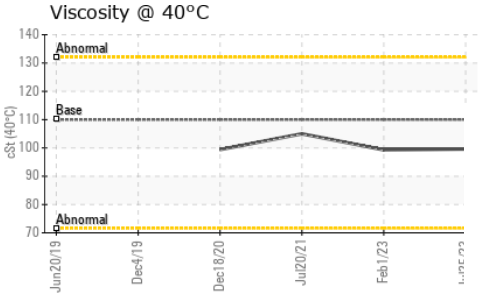
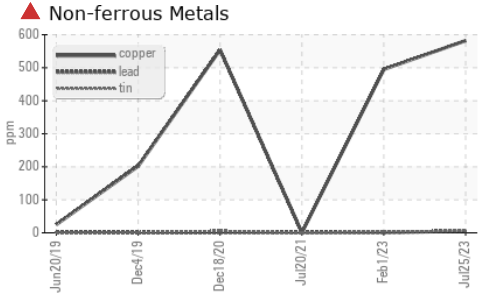
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	33	30	17
Sodium	ppm ASTM D5185m	3	2	2
Potassium	ppm ASTM D5185m >20	1	0	1

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar *Visual NONE	NONE	MODER	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	LIGHT	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



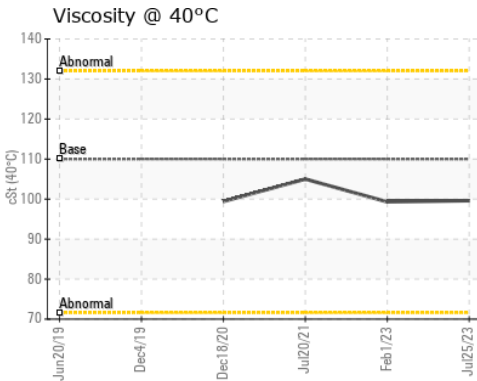
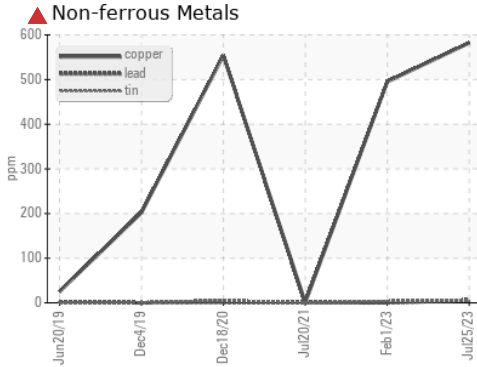
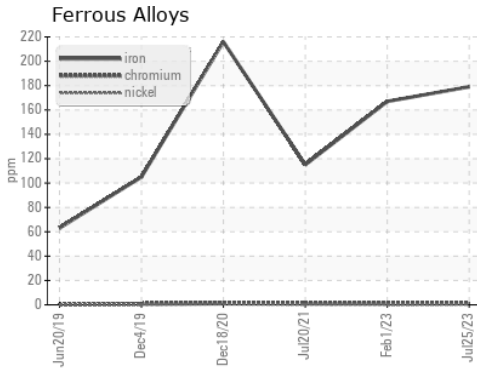
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445 110	99.6	99.3	105

SAMPLE IMAGES

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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0089165
Lab Number : 06105511
Unique Number : 10903741
Test Package : FLEET

Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 04 Mar 2024 - Don Baldrige

NW WHITE & CO - GREER DIVISION
 1060 ROGERS BRIDGE RD
 DUNCAN, SC
 US 29334
 Contact: Matt Quinlan
 mquinlan@nwwhite.com
 T: (864)905-8506
 F:

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)