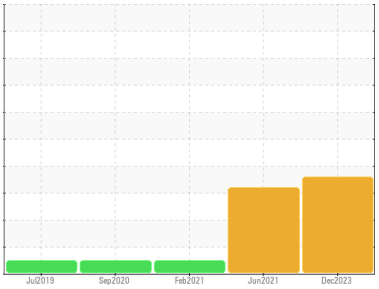
OIL DIAGNOSTICS

PROBLEM SUMMARY

Sample Rating Trend

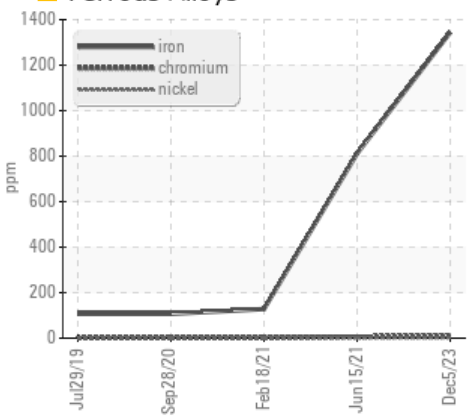


DIRT

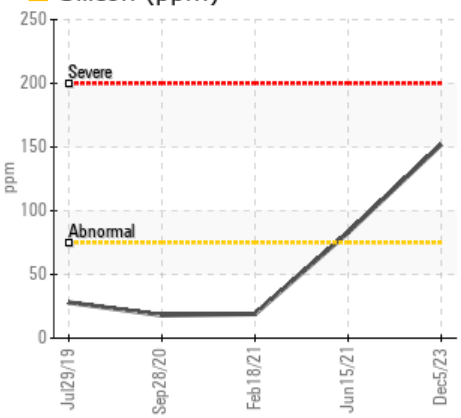
Machine Id
DT663
Component
Rear Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

COMPONENT CONDITION SUMMARY

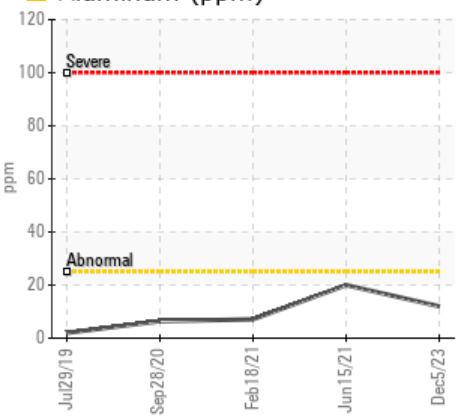
Ferrous Alloys



Silicon (ppm)



Aluminum (ppm)



RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	NORMAL
Iron	ppm	ASTM D5185m	>500	**1344**	812	128
Aluminum	ppm	ASTM D5185m	>25	**12**	20	7
Silicon	ppm	ASTM D5185m	>75	**152**	83	19
Debris	scalar	*Visual	NONE	**MODER**	NONE	NONE

Customer Id: NWWVAR
Sample No.: PCA0104199
Lab Number: 06028141
Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +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.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

15 Jun 2021 Diag: Doug Bogart

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.

view report

18 Feb 2021 Diag: Don Baldridge

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

28 Sep 2020 Diag: Don Baldridge

NORMAL

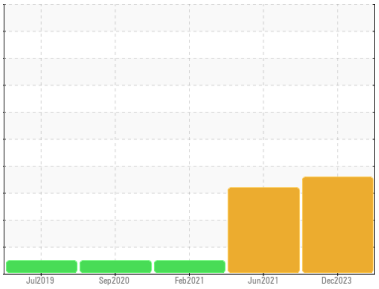
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Sample Rating Trend



DIRT

Machine Id
DT663
Component
Rear Differential
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 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.

Contamination
Moderate concentration of visible dirt/debris present in the oil. 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		**PCA0104199**	PCA0046167	PCA0036906
Sample Date		Client Info		**05 Dec 2023**	15 Jun 2021	18 Feb 2021
Machine Age	mls	Client Info		**240062**	0	0
Oil Age	mls	Client Info		**28325**	0	0
Oil Changed		Client Info		**Not Changd**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	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	▲ **1344**	▲ 812	128
Chromium	ppm	ASTM D5185m	>10	**9**	6	1
Nickel	ppm	ASTM D5185m	>10	**2**	1	<1
Titanium	ppm	ASTM D5185m		**3**	1	<1
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	▲ **12**	▲ 20	7
Lead	ppm	ASTM D5185m	>25	**0**	0	0
Copper	ppm	ASTM D5185m	>100	**6**	3	<1
Tin	ppm	ASTM D5185m	>10	**<1**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	0
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**13**	209	160
Barium	ppm	ASTM D5185m		**0**	49	<1
Molybdenum	ppm	ASTM D5185m		**2**	<1	0
Manganese	ppm	ASTM D5185m		**28**	29	6
Magnesium	ppm	ASTM D5185m		**6**	5	<1
Calcium	ppm	ASTM D5185m		**24**	51	9
Phosphorus	ppm	ASTM D5185m		**732**	1407	1308
Zinc	ppm	ASTM D5185m		**40**	20	9
Sulfur	ppm	ASTM D5185m		**18187**	21727	20154

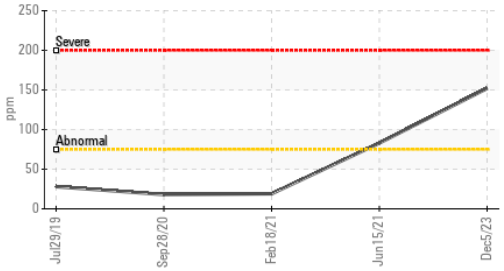
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **152**	▲ 83	19
Sodium	ppm	ASTM D5185m		**16**	6	5
Potassium	ppm	ASTM D5185m	>20	**50**	1	10

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	▲ **MODER**	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

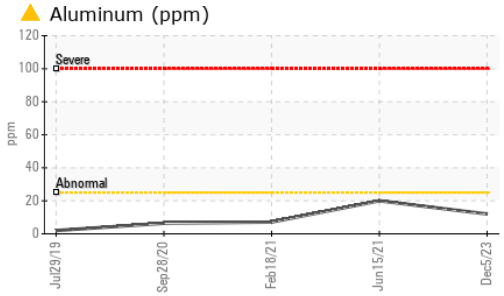
Submitted By: Paul Riddick

OIL ANALYSIS REPORT

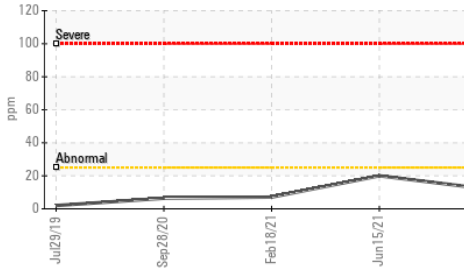
Silicon (ppm)



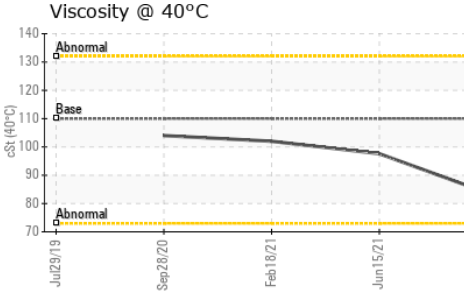
Aluminum (ppm)



Aluminum (ppm)



Viscosity @ 40°C

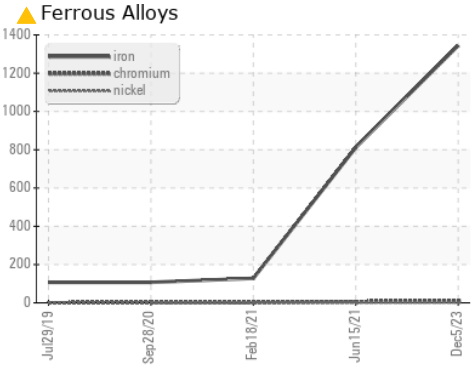


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	**83.8**	97.6	102

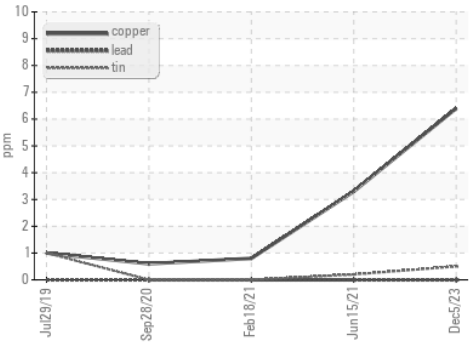
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

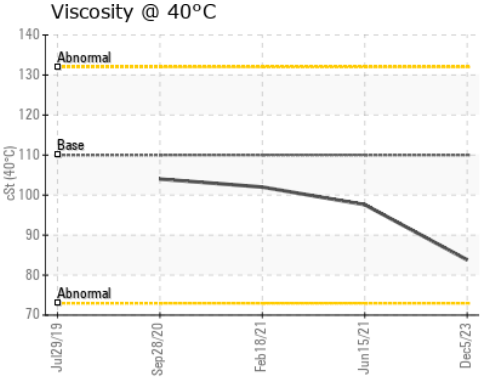
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104199
Lab Number : 06028141
Unique Number : 10777932
Test Package : FLEET

Received : 07 Dec 2023
Diagnosed : 10 Dec 2023
Diagnostician : Don Baldridge

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)

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VARNVILLE, SC
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Report Id: NWWVAR [WUSCAR] 06028141 (Generated: 12/10/2023 12:08:22) Rev: 1

Submitted By: Paul Riddick