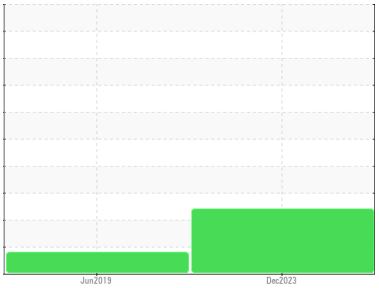
OIL DIAGNOSTICS

PROBLEM SUMMARY

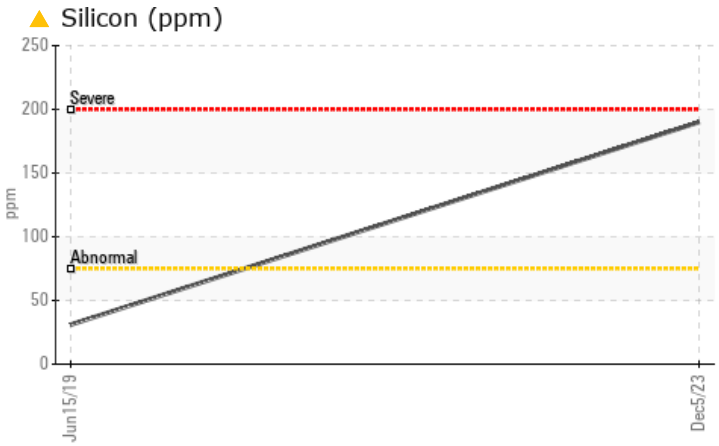
Sample Rating Trend

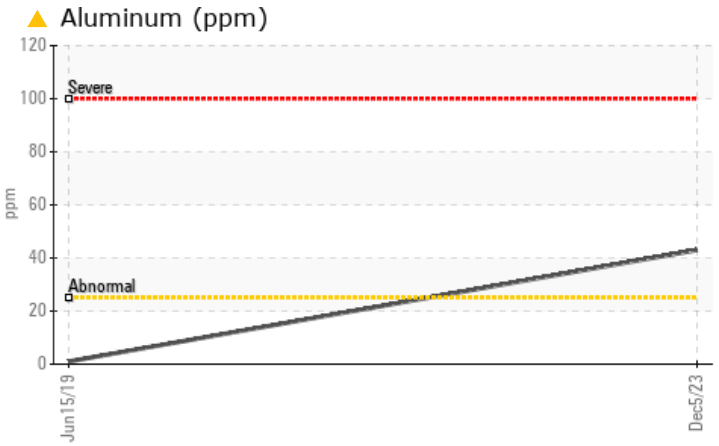


DIRT

Machine Id
DT627
Component
Front Axle
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	---
Aluminum	ppm	ASTM D5185m	>25	▲ **43**	1	---
Silicon	ppm	ASTM D5185m	>75	▲ **190**	31	---

Customer Id: NWWCHA
Sample No.: PCA0107511
Lab Number: 06028212
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
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

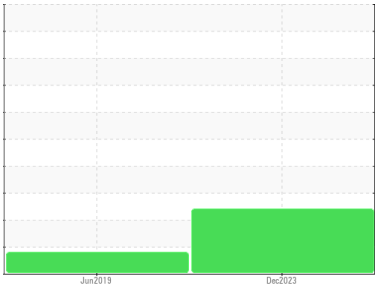
15 Jun 2019 Diag: Wes Davis

WEAR

view report

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT

Machine Id
DT627
Component
Front Axle
Fluid
CHEVRON RPM SYNTHETIC GEAR 75W90 (3 mls)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

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		**PCA0107511**	PCAI-616433	---
Sample Date		Client Info		**05 Dec 2023**	15 Jun 2019	---
Machine Age	mls	Client Info		**227166**	75789	---
Oil Age	mls	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	---

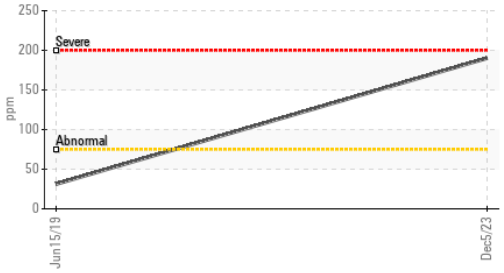
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**424**	166	---
Chromium	ppm	ASTM D5185m	>10	**3**	1	---
Nickel	ppm	ASTM D5185m	>10	**<1**	0	---
Titanium	ppm	ASTM D5185m		**3**	0	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ **43**	1	---
Lead	ppm	ASTM D5185m	>25	**0**	0	---
Copper	ppm	ASTM D5185m	>50	**2**	▲ 54	---
Tin	ppm	ASTM D5185m	>10	**0**	1	---
Antimony	ppm	ASTM D5185m	>5	**---**	0	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**176**	191	---
Barium	ppm	ASTM D5185m		**0**	3	---
Molybdenum	ppm	ASTM D5185m		**8**	0	---
Manganese	ppm	ASTM D5185m		**7**	32	---
Magnesium	ppm	ASTM D5185m		**73**	1	---
Calcium	ppm	ASTM D5185m		**121**	7	---
Phosphorus	ppm	ASTM D5185m		**1276**	1285	---
Zinc	ppm	ASTM D5185m		**102**	15	---
Sulfur	ppm	ASTM D5185m		**21398**	---	---
Lithium	ppm	ASTM D5185m		**---**	0	---

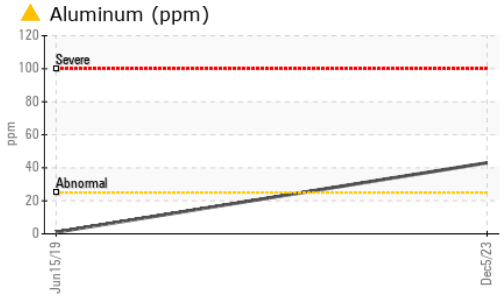
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	▲ **190**	31	---
Sodium	ppm	ASTM D5185m		**10**	6	---
Potassium	ppm	ASTM D5185m	>20	**16**	6	---

OIL ANALYSIS REPORT

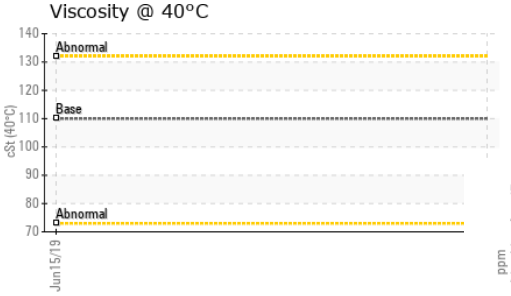
Silicon (ppm)



Aluminum (ppm)



Viscosity @ 40°C



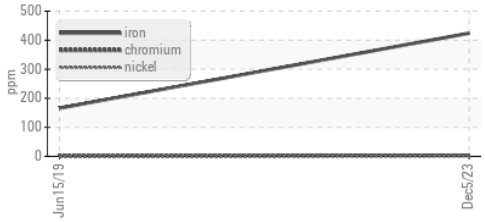
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	110	**94.4**	---	---

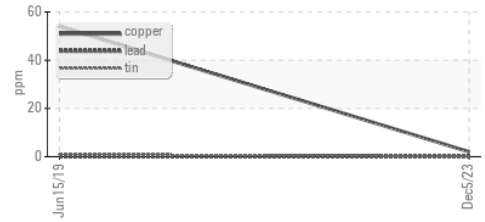
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

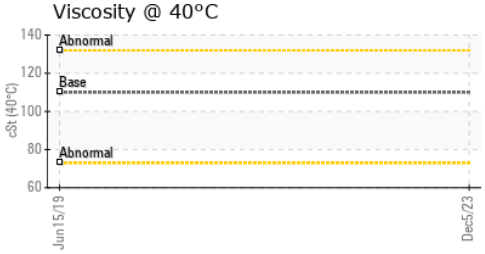
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0107511 **Received** : 07 Dec 2023
Lab Number : 06028212 **Diagnosed** : 10 Dec 2023
Unique Number : 10778003 **Diagnostician** : Don Baldridge
Test Package : FLEET

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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CHARLESTON, SC
US 29406
Contact: TRIVON BAZZLE
tbazzle@nwwhite.com
T:
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Report Id: NWWCHA [WUSCAR] 06028212 (Generated: 12/10/2023 12:31:20) Rev: 1

Submitted By: Paul Riddick