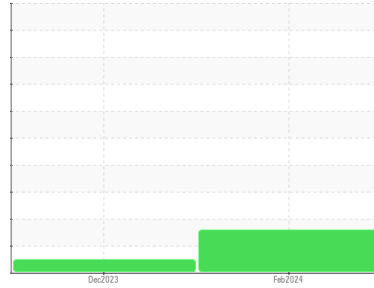


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
CHEVROLET 616
 Component
Gasoline Engine
 Fluid
AC DELCO 0W20 (--- GAL)

DIAGNOSIS

- Recommendation**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 Metal levels are typical for a new component breaking in.
- Contamination**
 Elemental level of silicon (Si) above normal indicating ingress of seal material.
- Fluid Condition**
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0117692	PCA0112920	---
Sample Date	Client Info		13 Feb 2024	20 Dec 2023	---
Machine Age	mls	Client Info	800	114125	---
Oil Age	mls	Client Info	800	2176	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	36	2	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >5	0	0	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m >2	<1	0	---
Aluminum	ppm	ASTM D5185m >40	4	1	---
Lead	ppm	ASTM D5185m >50	<1	1	---
Copper	ppm	ASTM D5185m >155	143	3	---
Tin	ppm	ASTM D5185m >10	1	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	61	45	---
Barium	ppm	ASTM D5185m	<1	0	---
Molybdenum	ppm	ASTM D5185m	144	67	---
Manganese	ppm	ASTM D5185m	18	<1	---
Magnesium	ppm	ASTM D5185m	450	544	---
Calcium	ppm	ASTM D5185m	1175	1152	---
Phosphorus	ppm	ASTM D5185m	641	715	---
Zinc	ppm	ASTM D5185m	780	804	---
Sulfur	ppm	ASTM D5185m	1638	2498	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	▲ 169	16	---
Sodium	ppm	ASTM D5185m >400	8	3	---
Potassium	ppm	ASTM D5185m >20	8	0	---

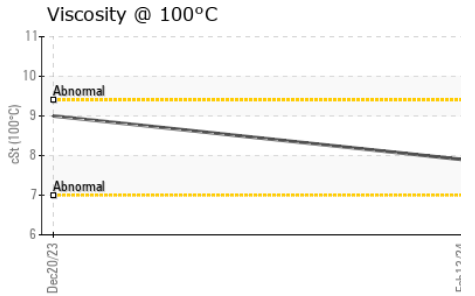
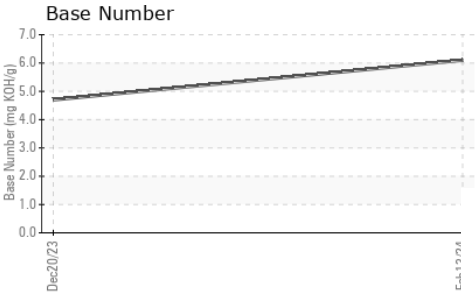
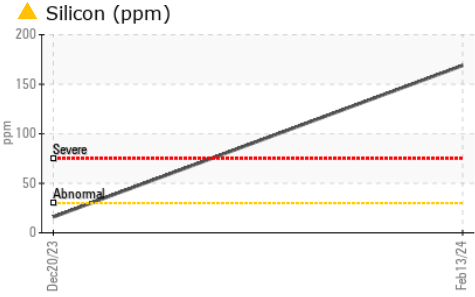
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	---
Nitration	Abs/cm	*ASTM D7624 >20	6.3	7.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	15.6	19.2	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	9.4	14.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	6.1	4.7	---

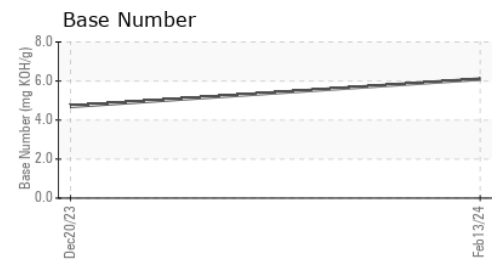
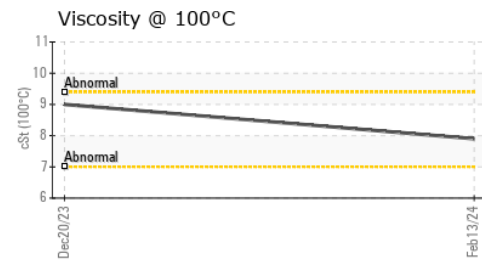
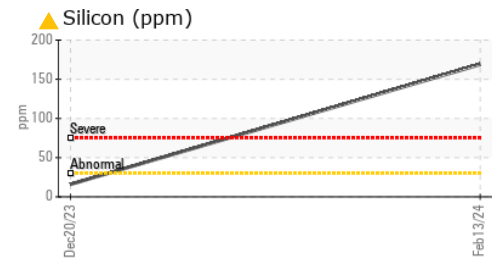
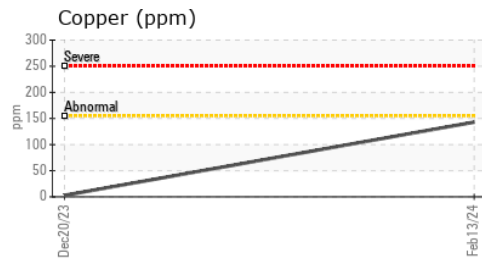
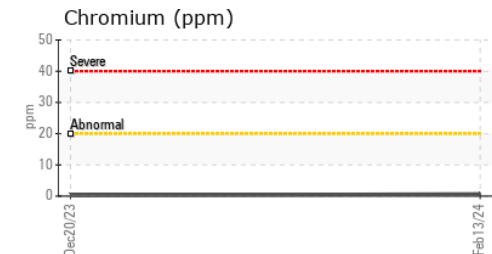
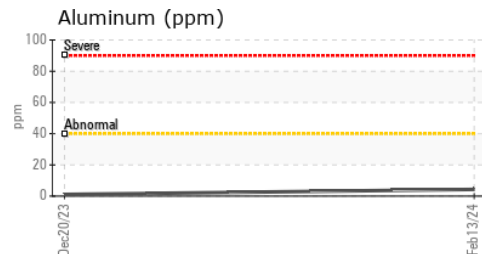
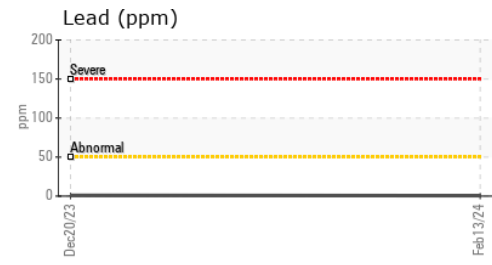
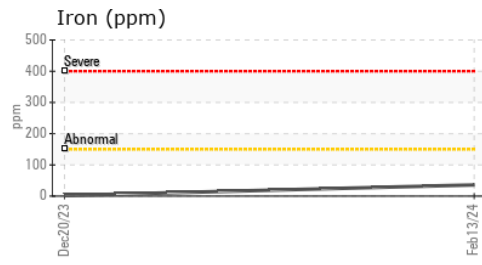
OIL ANALYSIS REPORT



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 @ 100°C	cSt	ASTM D445	7.9	9	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0117692 **Received** : 29 Feb 2024
Lab Number : 06105029 **Tested** : 01 Mar 2024
Unique Number : 10903259 **Diagnosed** : 04 Mar 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

VILLAGE OF NORTH RIVERSIDE
 2345 S DESPLAINES
 NORTH RIVERSIDE, IL
 US 60546
 Contact: Service Manager
 vznrpdw@gmail.com
 T:
 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)