

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	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	---
Filter Age	mls	Client Info		800	2176	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

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	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

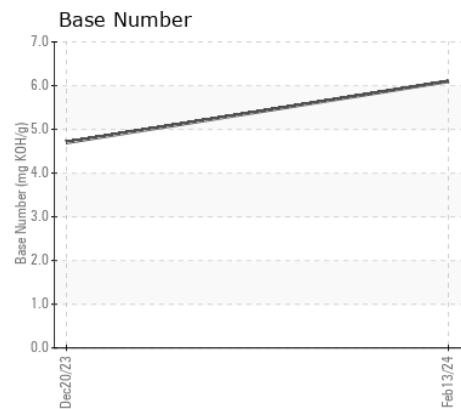
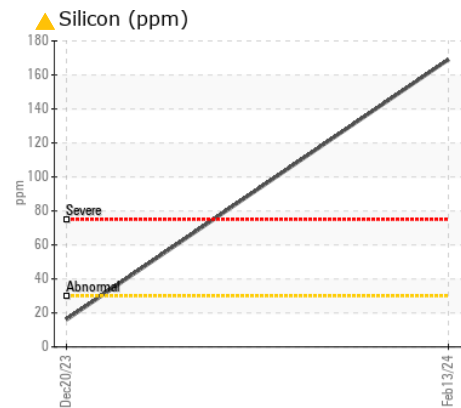
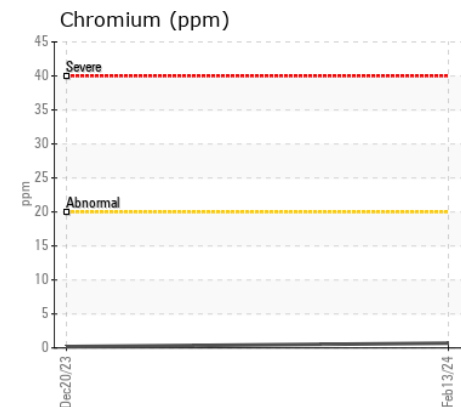
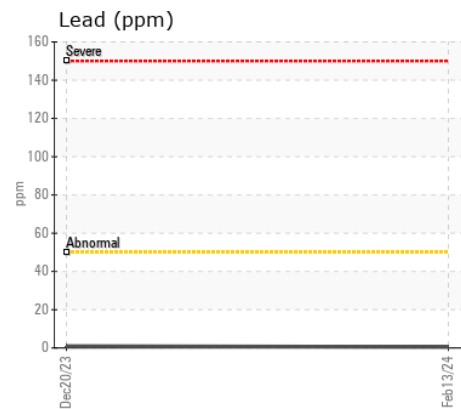
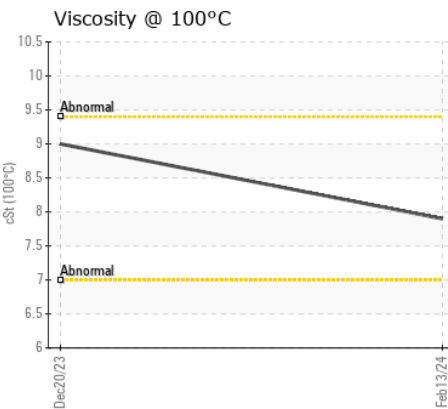
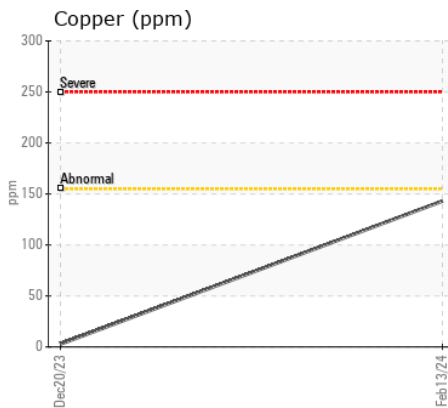
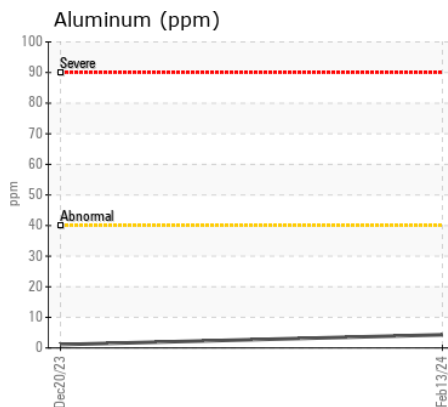
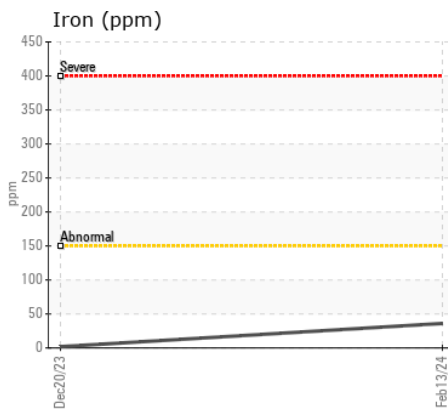
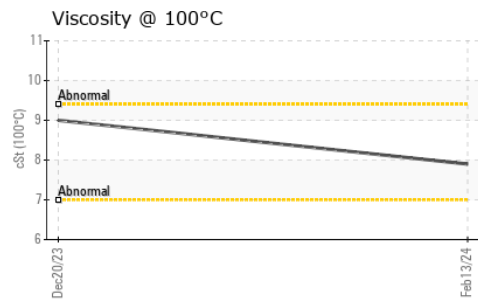
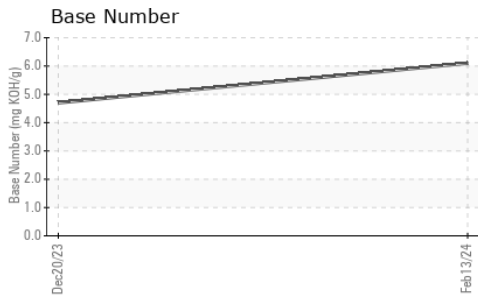
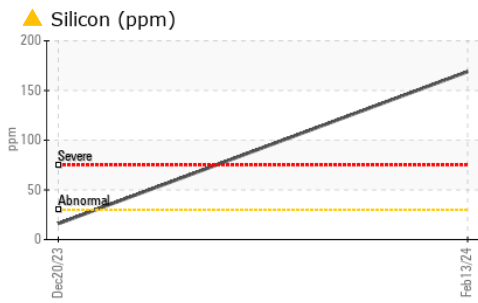
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>30	▲ 169	16	---
Potassium	ppm	ASTM D5185m	>20	8	0	---
Fuel		WC Method	>4.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
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	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m	>400	8	3	---
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	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.4	14.7	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.1	4.7	---
Visc @ 100°C	cSt	ASTM D445		7.9	9	---



Certificate L2367

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
 vznrdpw@gmail.com

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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F: