

Machine Id
CHEVROLET 616
Component
Gasoline Engine
Fluid
PETRO CANADA SUPREME 5W20 MOTOR OIL (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0123151	PCA0123144	PCA0117710
Sample Date		Client Info		29 May 2024	19 Apr 2024	22 Mar 2024
Machine Age	mls	Client Info		5649	3970	2441
Oil Age	mls	Client Info		1679	1529	1641
Filter Age	mls	Client Info		1679	1529	1641
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	14	13	19
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	1	1	3
Lead	ppm	ASTM D5185m	>50	0	1	<1
Copper	ppm	ASTM D5185m	>155	47	46	66
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

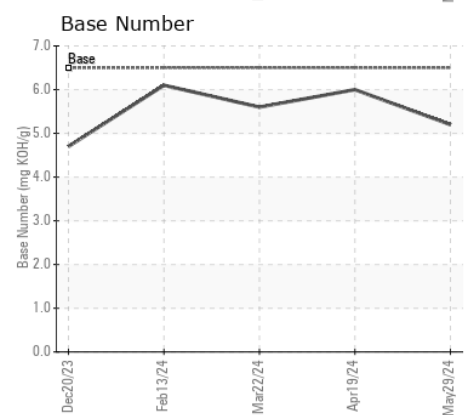
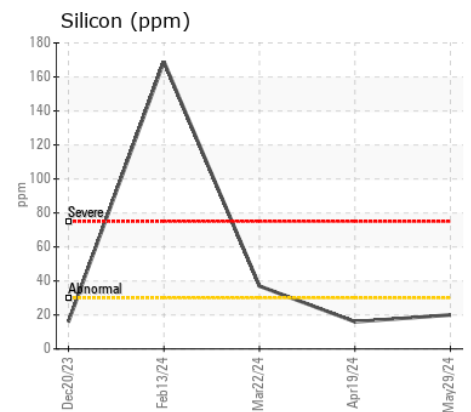
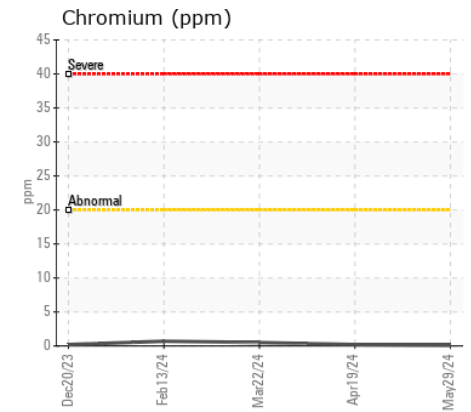
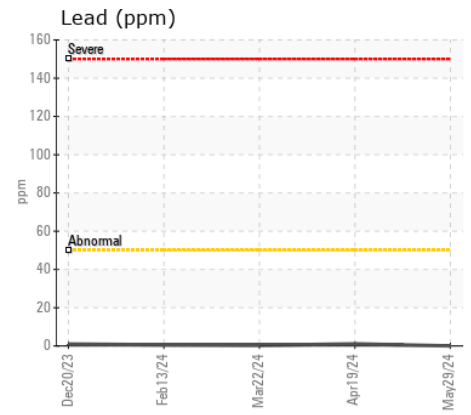
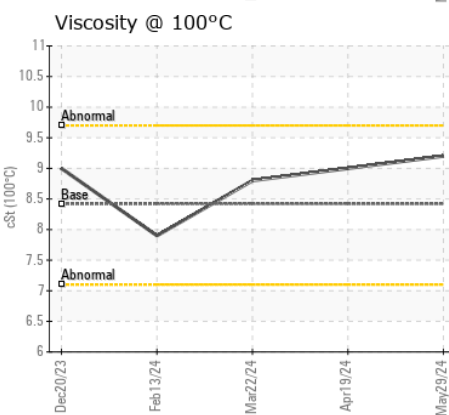
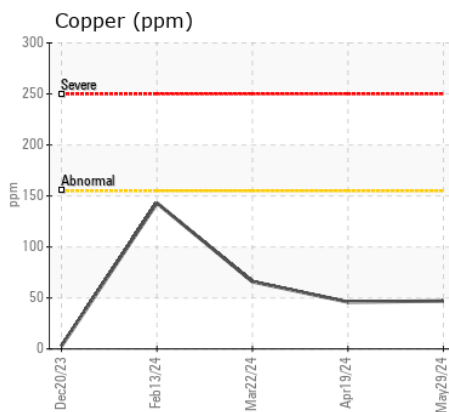
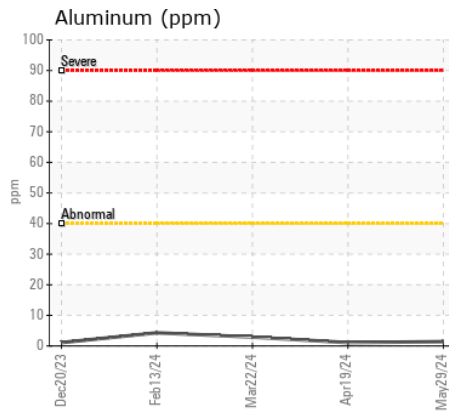
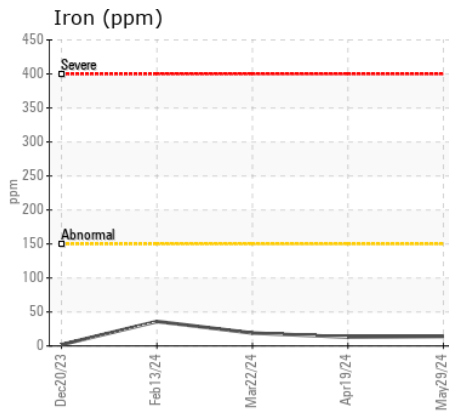
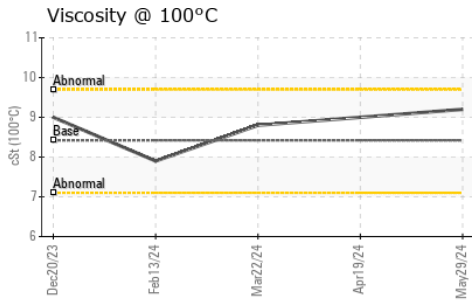
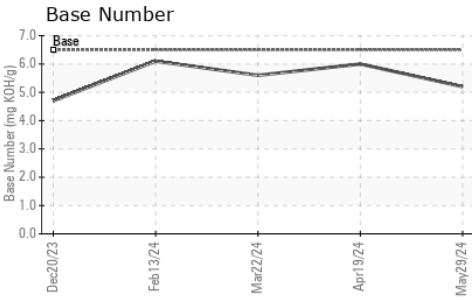
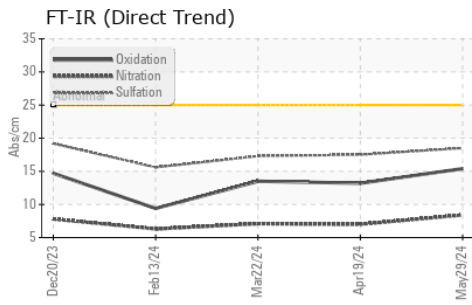
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	20	16	37
Potassium	ppm	ASTM D5185m	>20	1	2	4
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0
Nitration	Abs/cm	*ASTM D7624	>20	8.4	7.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	17.5	17.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	22	12	12
Boron	ppm	ASTM D5185m	183	35	70	60
Barium	ppm	ASTM D5185m	0	0	<1	<1
Molybdenum	ppm	ASTM D5185m	36	67	71	79
Manganese	ppm	ASTM D5185m	0	7	8	16
Magnesium	ppm	ASTM D5185m	417	631	660	570
Calcium	ppm	ASTM D5185m	1318	1327	1354	1217
Phosphorus	ppm	ASTM D5185m	773	752	788	693
Zinc	ppm	ASTM D5185m	845	937	1062	852
Sulfur	ppm	ASTM D5185m	2690	2882	3114	2304
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	13.2	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	6.5	5.2	6.0	5.6
Visc @ 100°C	cSt	ASTM D445	8.42	9.2	9.0	8.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123151 **Received** : 05 Jul 2024
Lab Number : 06229529 **Tested** : 09 Jul 2024
Unique Number : 11113022 **Diagnosed** : 09 Jul 2024 - Wes Davis
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

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: