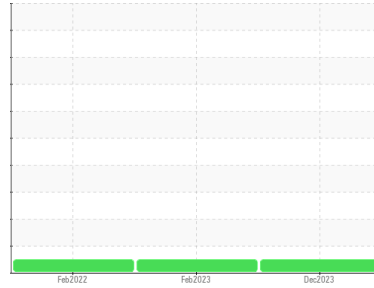


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
CHEVROLET 004209
 Component
Gasoline Engine
 Fluid
PETRO CANADA 10W30 (6 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0091661	PCA0045461	PCA0045581
Sample Date	Client Info		07 Dec 2023	16 Feb 2023	28 Feb 2022
Machine Age	mls	Client Info	18398	13636	11131
Oil Age	mls	Client Info	4762	13636	11131
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	21	16	16
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	0	0	1
Titanium	ppm	ASTM D5185m	<1	1	4
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >40	2	2	3
Lead	ppm	ASTM D5185m >50	0	3	1
Copper	ppm	ASTM D5185m >155	120	277	67
Tin	ppm	ASTM D5185m >10	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	3	13	131
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	62	70	153
Manganese	ppm	ASTM D5185m	<1	2	1
Magnesium	ppm	ASTM D5185m	876	845	678
Calcium	ppm	ASTM D5185m	969	1091	1318
Phosphorus	ppm	ASTM D5185m	703	802	797
Zinc	ppm	ASTM D5185m	1092	1088	968
Sulfur	ppm	ASTM D5185m	1850	2456	2360

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	11	10	10
Sodium	ppm	ASTM D5185m	0	2	2
Potassium	ppm	ASTM D5185m >20	2	2	3

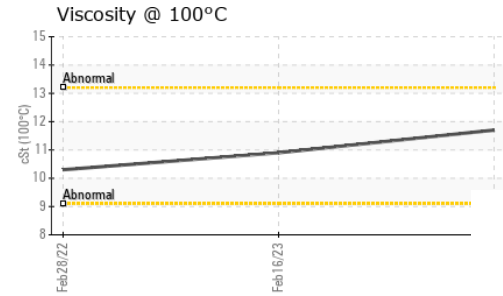
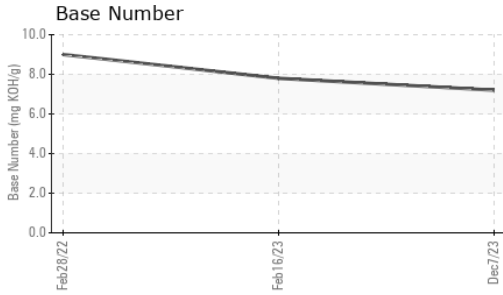
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	12.3	9.7	6.6
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.8	20.8	22.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.9	16.7	9.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.2	7.8	9

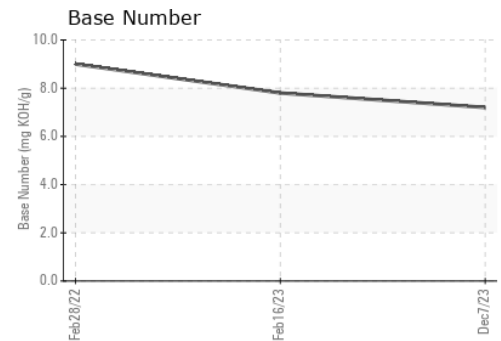
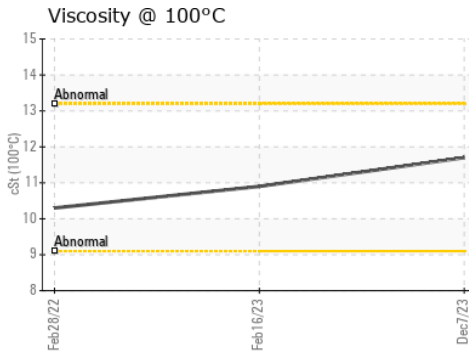
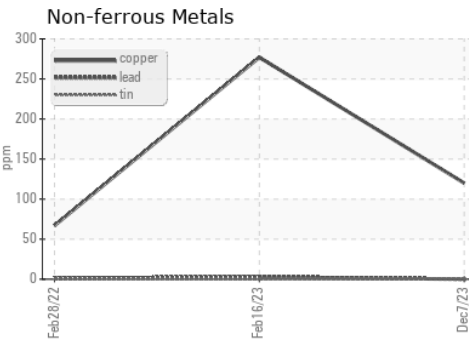
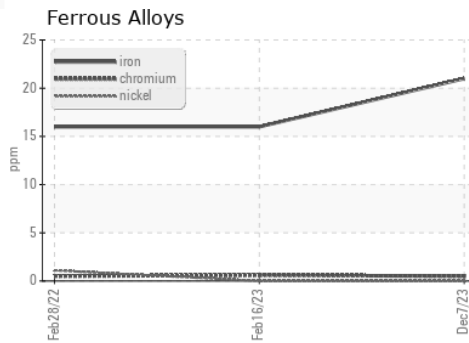
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.7	10.9	10.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0091661 **Received** : 20 Dec 2023
Lab Number : **06040279** **Diagnosed** : 21 Dec 2023
Unique Number : 10795508 **Diagnostician** : Sean Felton
Test Package : FLEET (Additional Tests: FT-IR(Diff))

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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