



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CHEVROLET 13518**  
Component  
**Gasoline Engine**  
Fluid  
**CHEVRON SUPREME MOTOR OIL 5W30 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0856939</b>	WC0856777	WC0822612
Sample Date		Client Info		<b>05 Jan 2024</b>	26 Sep 2023	20 Jun 2023
Machine Age	mls	Client Info		<b>166547</b>	161486	156586
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>22</b>	15	19
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	4	10
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>7</b>	8	4
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

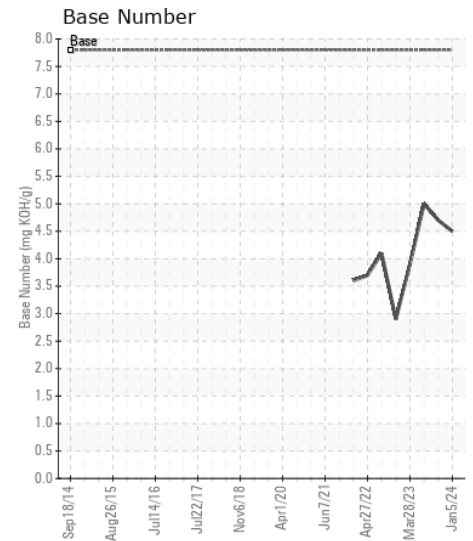
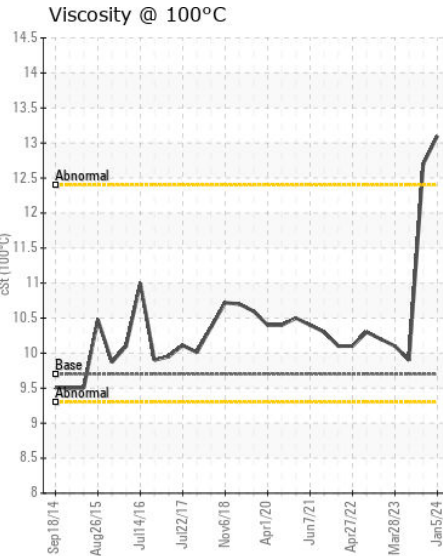
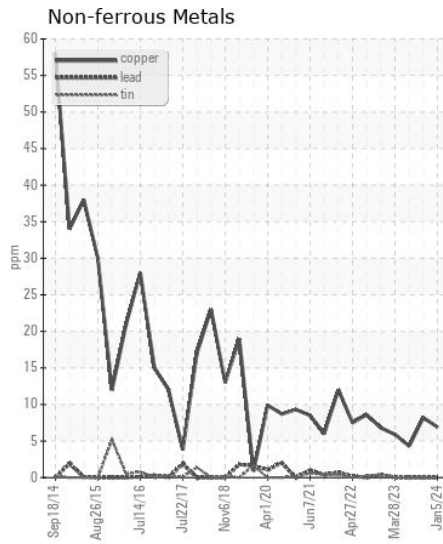
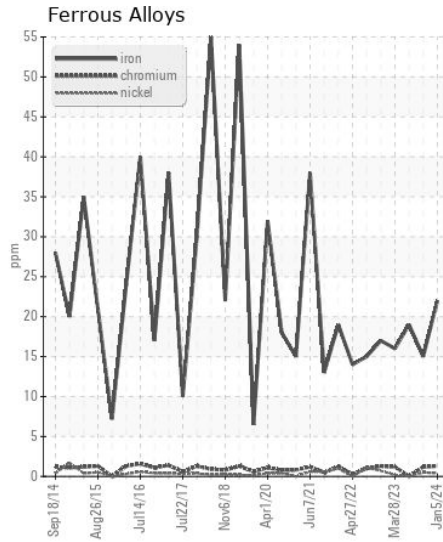
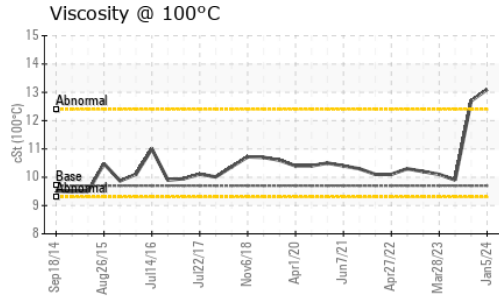
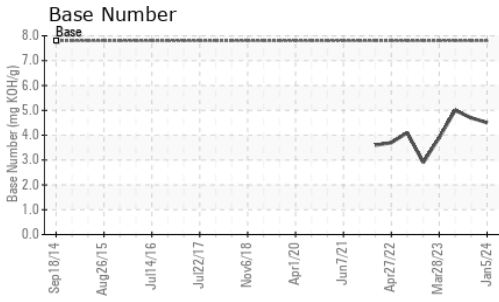
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>23</b>	26	19
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.4</b>	12.2	10.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.3</b>	25.1	22.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	<b>4</b>	3	2
Boron	ppm	ASTM D5185m		<b>30</b>	29	39
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>16</b>	42	97
Manganese	ppm	ASTM D5185m		<b>3</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>683</b>	677	494
Calcium	ppm	ASTM D5185m		<b>1305</b>	1298	1105
Phosphorus	ppm	ASTM D5185m	780	<b>711</b>	704	739
Zinc	ppm	ASTM D5185m	860	<b>838</b>	855	854
Sulfur	ppm	ASTM D5185m		<b>2694</b>	2869	4516
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>22.2</b>	21.5	17.3
Base Number (BN)	mg KOH/g	ASTM D2896	7.8	<b>4.5</b>	4.7	5.0
Visc @ 100°C	cSt	ASTM D445	9.7	<b>13.1</b>	12.7	9.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0856939 **Received** : 16 Jan 2024  
**Lab Number** : 06060627 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 10832009 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: TBN )

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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