



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**CHEVROLET 11604**  
 Component  
**Gasoline Engine**  
 Fluid  
**GASOLINE ENGINE OIL SAE 5W30 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0924507</b>	WC0882717	WC0882876
Sample Date		Client Info		<b>15 Apr 2024</b>	09 Feb 2024	16 Jan 2024
Machine Age	mls	Client Info		<b>166299</b>	159784	139667
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>10</b>	10	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>3</b>	3	2
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>2</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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

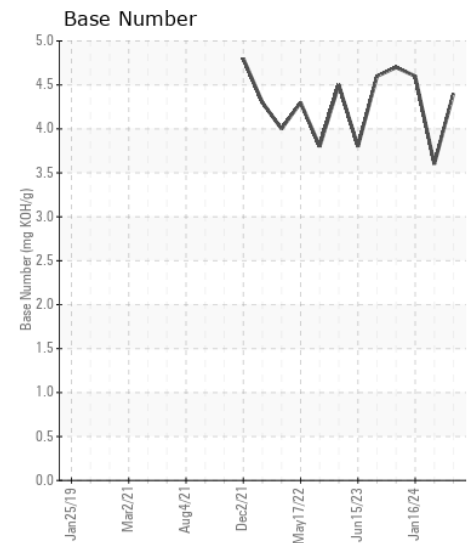
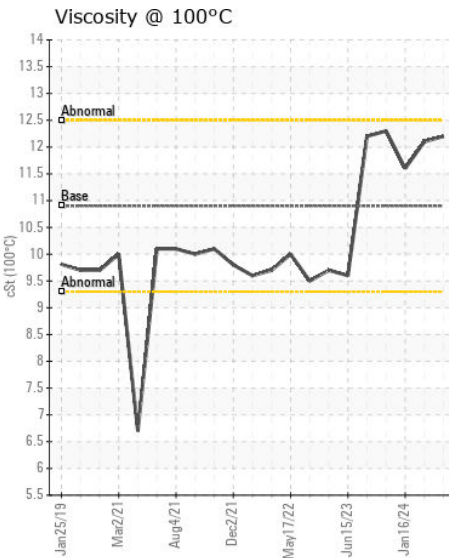
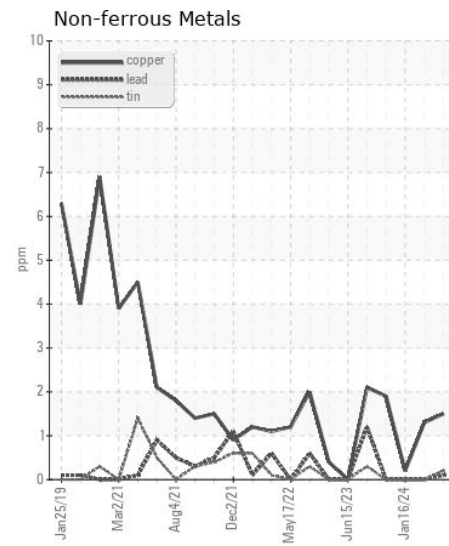
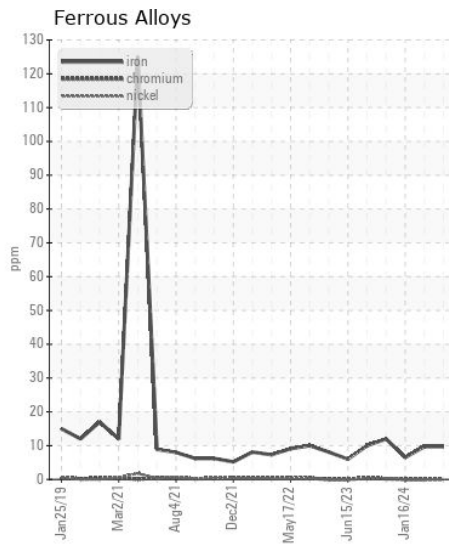
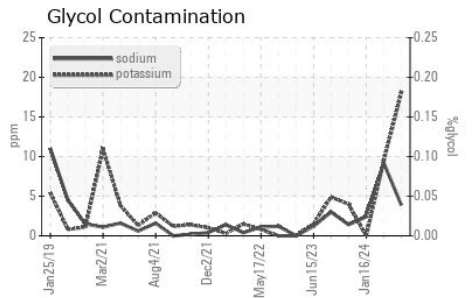
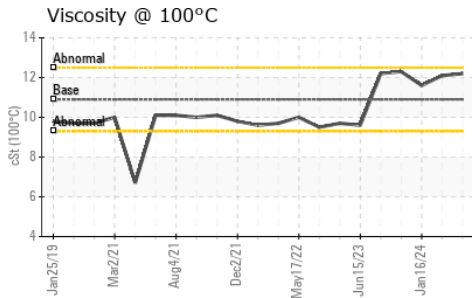
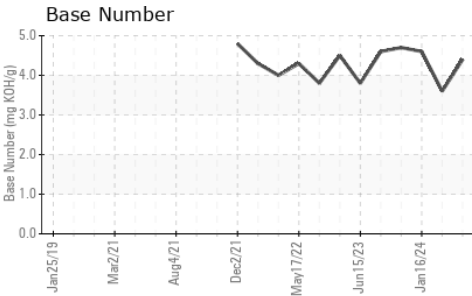
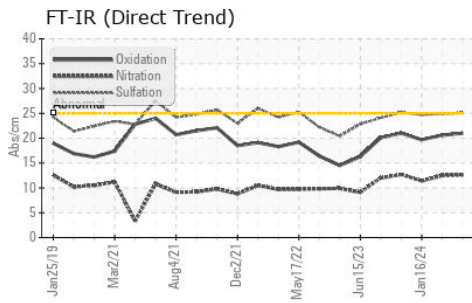
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>10</b>	11	22
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	9	0
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	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.6</b>	12.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.1</b>	24.9	24.7
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>	9	2
Boron	ppm	ASTM D5185m	75	<b>19</b>	37	36
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>5</b>	9	17
Manganese	ppm	ASTM D5185m		<b>6</b>	3	2
Magnesium	ppm	ASTM D5185m	12	<b>666</b>	726	694
Calcium	ppm	ASTM D5185m	2100	<b>1290</b>	1342	1225
Phosphorus	ppm	ASTM D5185m	650	<b>672</b>	718	645
Zinc	ppm	ASTM D5185m	850	<b>773</b>	882	742
Sulfur	ppm	ASTM D5185m	2500	<b>3129</b>	2938	2696
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.0</b>	20.6	19.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.4</b>	3.6	4.6
Visc @ 100°C	cSt	ASTM D445	10.9	<b>12.2</b>	12.1	11.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0924507 **Received** : 16 Apr 2024  
**Lab Number** : 06151002 **Tested** : 19 Apr 2024  
**Unique Number** : 10981080 **Diagnosed** : 19 Apr 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: Glycol, 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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