



# OIL ANALYSIS REPORT

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

Machine Id  
**CHEVROLET 11607**  
 Component  
**Gasoline Engine**  
 Fluid  
**GASOLINE ENGINE OIL SAE 5W30 (5 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0950579</b>	WC0905250	WC0810004
Sample Date		Client Info		<b>08 Jul 2024</b>	08 Apr 2024	27 Jan 2024
Machine Age	mls	Client Info		<b>223170</b>	214286	206348
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>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>10</b>	13	5
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>3</b>	5	2
Lead	ppm	ASTM D5185m	>50	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>155	<b>1</b>	2	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	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.

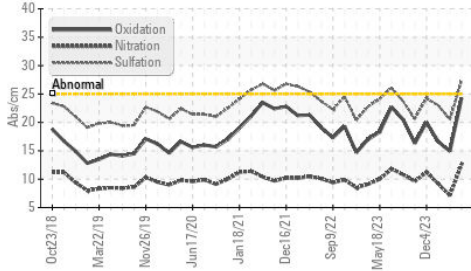
Silicon	ppm	ASTM D5185m	>30	<b>25</b>	▲ 45	26
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	2	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.3	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.6</b>	7.1	9.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.4</b>	20.5	23.0
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

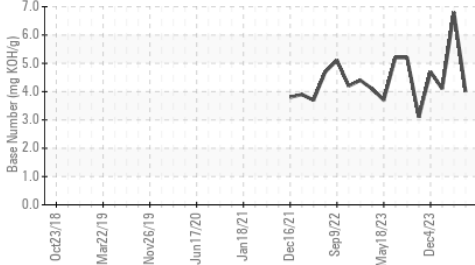
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>400	<b>2</b>	2	1
Boron	ppm	ASTM D5185m	75	<b>23</b>	33	35
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>10</b>	60	38
Manganese	ppm	ASTM D5185m		<b>10</b>	9	2
Magnesium	ppm	ASTM D5185m	12	<b>699</b>	1022	667
Calcium	ppm	ASTM D5185m	2100	<b>1262</b>	1189	840
Phosphorus	ppm	ASTM D5185m	650	<b>729</b>	847	632
Zinc	ppm	ASTM D5185m	850	<b>833</b>	1058	726
Sulfur	ppm	ASTM D5185m	2500	<b>2746</b>	3356	2290
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.3</b>	14.9	16.6
Base Number (BN)	mg KOH/g	ASTM D2896		<b>4.0</b>	6.8	4.1
Visc @ 100°C	cSt	ASTM D445	10.9	<b>11.5</b>	8.7	8.8

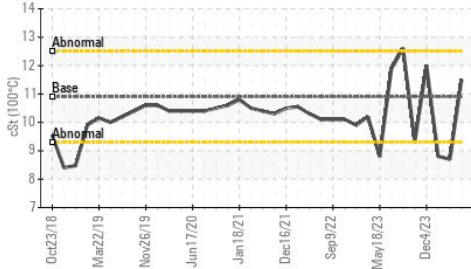
**FT-IR (Direct Trend)**



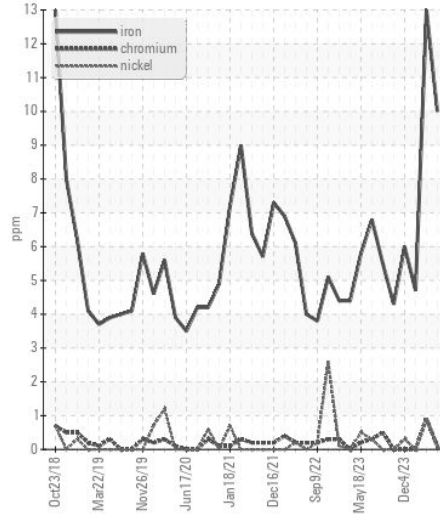
**Base Number**



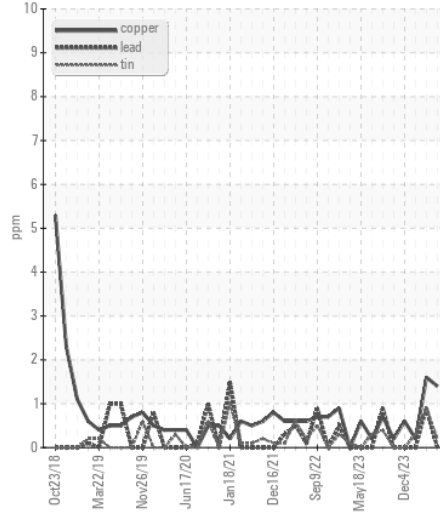
**Viscosity @ 100°C**



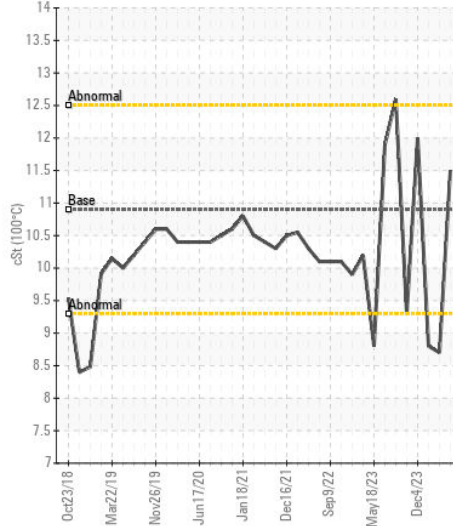
**Ferrous Alloys**



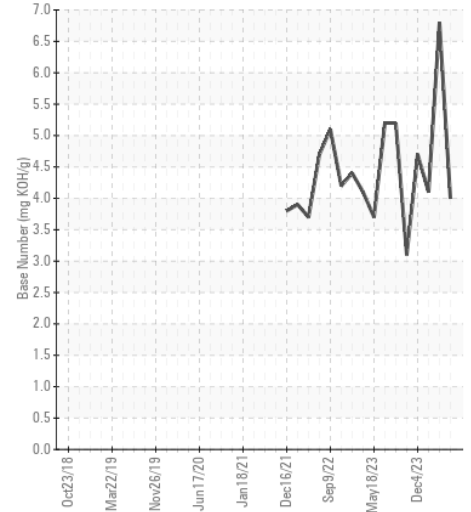
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0950579 **Received** : 11 Jul 2024  
**Lab Number** : 06233053 **Tested** : 11 Jul 2024  
**Unique Number** : 11116546 **Diagnosed** : 12 Jul 2024 - 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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