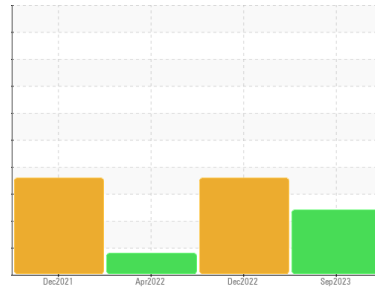




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id  
**CHEVY 16 MALIBU**

Component  
**Gasoline Engine**

Fluid  
**PARTS MASTER FULL SYN 5W30 (--- QTS)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>WC0819748</b>	WC0723508	WC0678979	
Sample Date	Client Info	<b>11 Sep 2023</b>	19 Dec 2022	27 Apr 2022	
Machine Age	mls	Client Info	<b>120035</b>	105297	92130
Oil Age	mls	Client Info	<b>5000</b>	5000	5000
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A	
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >150	<b>27</b>	50	39
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >40	<b>2</b>	4	9
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >155	<b>2</b>	3	3
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>17</b>	12	30
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>276</b>	271	306
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>510</b>	439	516
Calcium	ppm	ASTM D5185m	<b>1400</b>	1328	1353
Phosphorus	ppm	ASTM D5185m	<b>669</b>	663	707
Zinc	ppm	ASTM D5185m	<b>870</b>	747	884
Sulfur	ppm	ASTM D5185m	<b>2161</b>	2290	1906

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >30	<b>40</b>	31	28
Sodium	ppm	ASTM D5185m >400	<b>2</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>4</b>	<1	14
Fuel	%	ASTM D3524 >4.0	<b>2.5</b>	6.1	4.8

## INFRA-RED

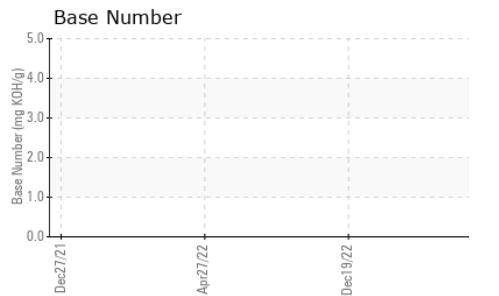
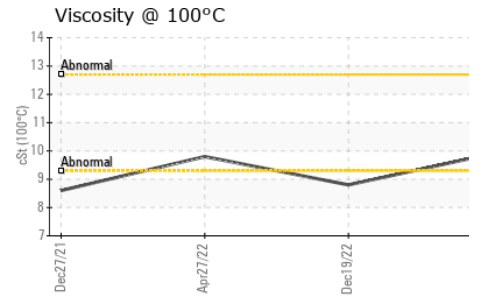
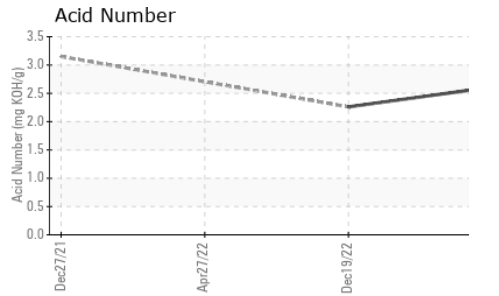
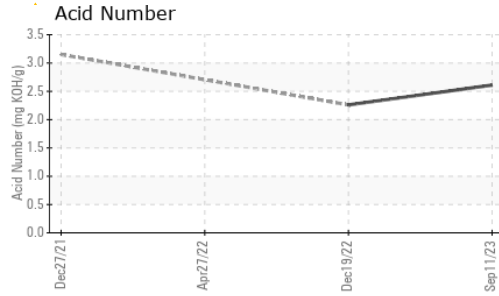
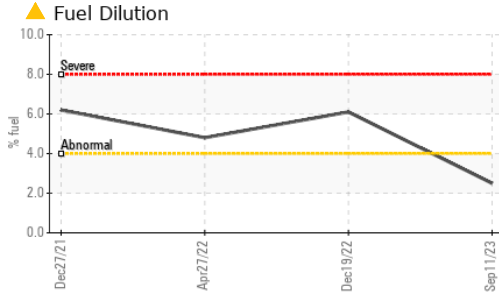
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.8</b>	13.9	14.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.2</b>	23.1	24.2

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>24.1</b>	18.5	21.1
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>2.61</b>	2.26	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>---</b>	---	4.66



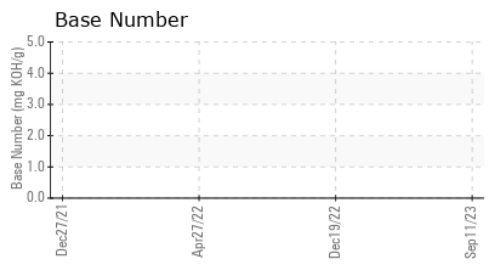
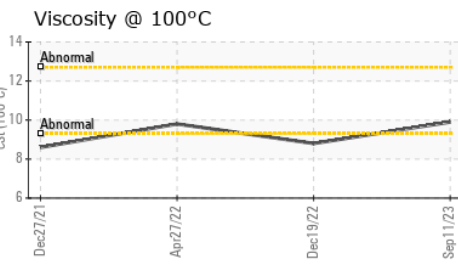
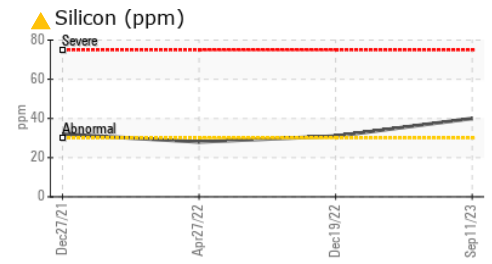
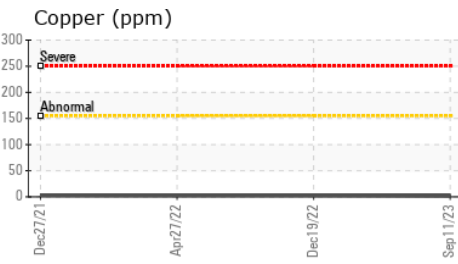
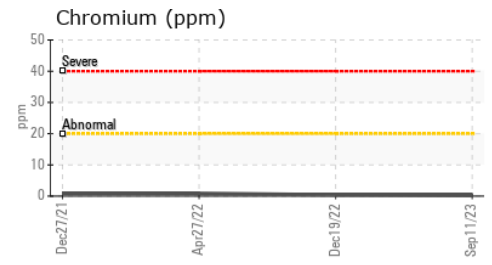
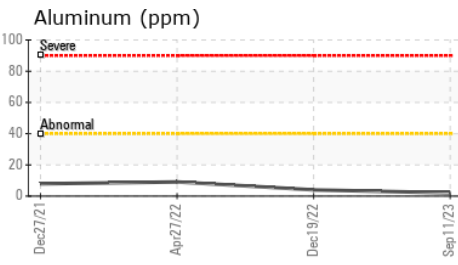
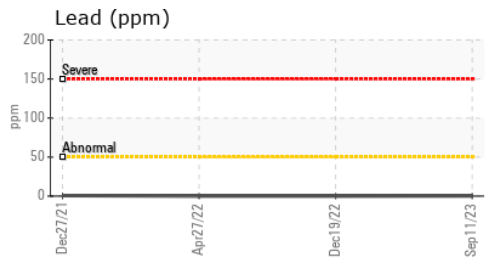
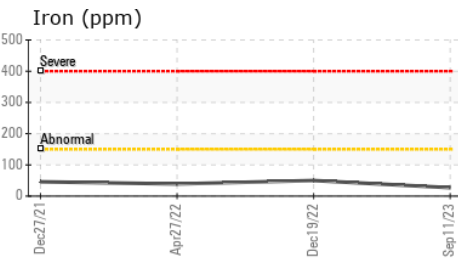
# OIL ANALYSIS REPORT



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	<b>9.9</b>	▲ 8.8	9.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0819748 **Received** : 27 Sep 2023  
**Lab Number** : 05963017 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10669568 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel, TBN )

**ALLEGHENY DISPOSAL LLC**  
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 GREEN BANK, WV  
 US 24944  
 Contact: SERVICE MANAGER  
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 F: (304)456-4540

Certificate L2367  
 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)