



# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**BMW 24950-03**  
 Component  
**Gasoline Engine**  
 Fluid  
 {not provided} (--- GAL)

### DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil.

**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>WCM2005023</b>	---	---
Sample Date	Client Info		<b>25 Jun 2024</b>	---	---
Machine Age	mls Client Info		<b>0</b>	---	---
Oil Age	mls Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

### WEAR METALS

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

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>118</b>	---	---
Barium	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>57</b>	---	---
Manganese	ppm ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm ASTM D5185m		<b>613</b>	---	---
Calcium	ppm ASTM D5185m		<b>1099</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>631</b>	---	---
Zinc	ppm ASTM D5185m		<b>852</b>	---	---
Sulfur	ppm ASTM D5185m		<b>2830</b>	---	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>30	<b>12</b>	---	---
Sodium	ppm ASTM D5185m	>400	<b>2</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>2</b>	---	---

### INFRA-RED

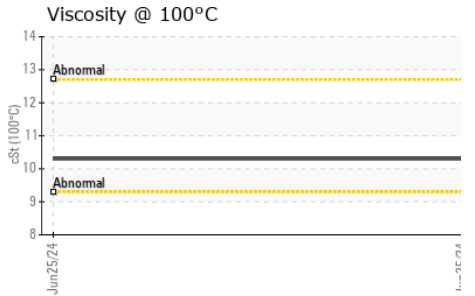
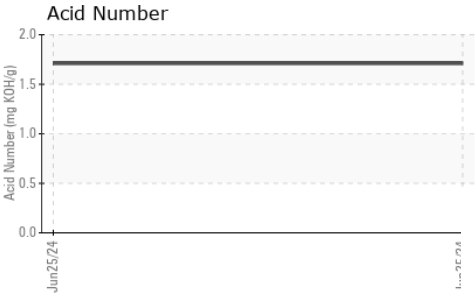
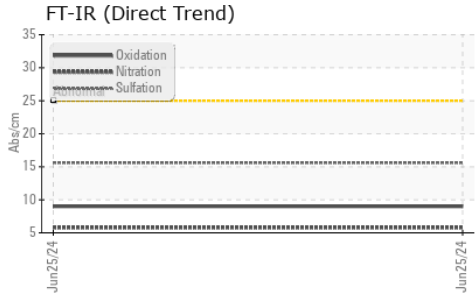
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844		<b>0</b>	---	---
Nitration	Abs/cm *ASTM D7624	>20	<b>5.8</b>	---	---
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>15.6</b>	---	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>9.0</b>	---	---
Acid Number (AN)	mg KOH/g ASTM D8045		<b>1.71</b>	---	---



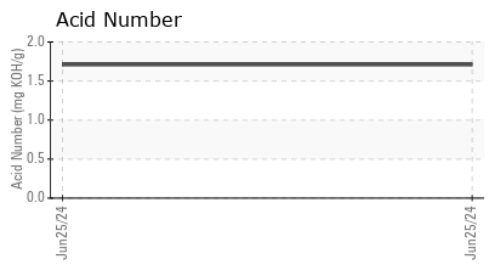
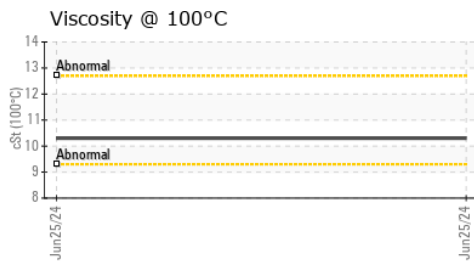
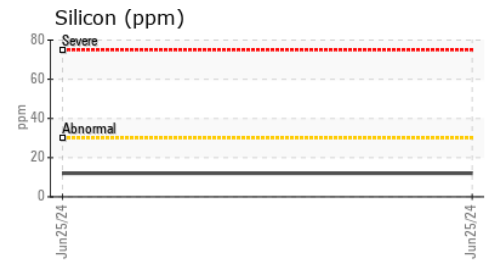
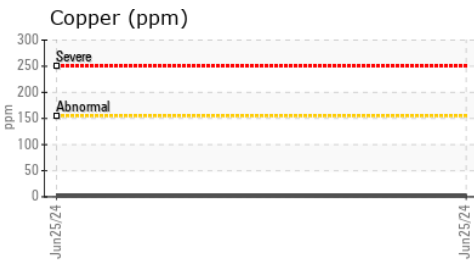
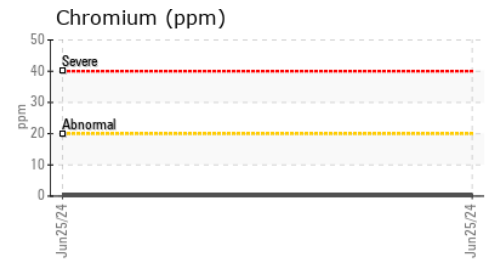
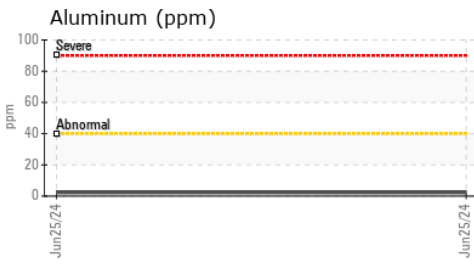
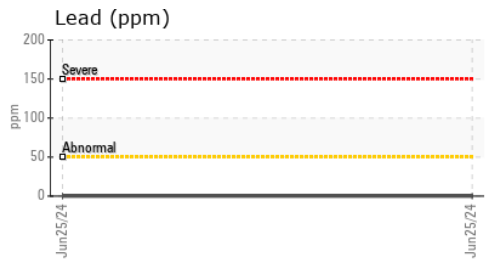
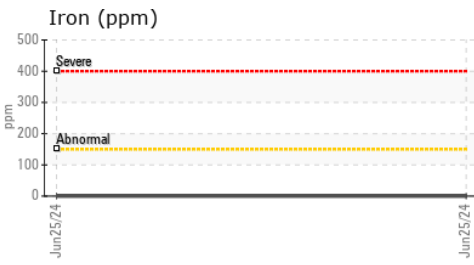
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

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

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WCM2005023  
**Lab Number** : 06221406  
**Unique Number** : 11099603  
**Test Package** : MOB 2

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Sean Felton

**SOUTHERN AUTOMOTIVE CONSULTING**  
 P.O. BOX 730  
 CREEDMOOR, NC  
 US 27522  
 Contact: ANDREW MORTON  
 andymorton711@yahoo.com

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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F: