



# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id  
**HONDA 24945-03**  
 Component  
**Gasoline Engine**  
 Fluid  
 {not provided} (--- GAL)

## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WCM2005021</b>	---	---
Sample Date	Client Info		<b>11 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>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>33</b>	---	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >40	<b>12</b>	---	---
Lead	ppm	ASTM D5185m >50	<b>1</b>	---	---
Copper	ppm	ASTM D5185m >155	<b>2</b>	---	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>2</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>42</b>	---	---
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>156</b>	---	---
Manganese	ppm	ASTM D5185m	<b>12</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>559</b>	---	---
Calcium	ppm	ASTM D5185m	<b>1322</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>731</b>	---	---
Zinc	ppm	ASTM D5185m	<b>894</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>2702</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>26</b>	---	---
Sodium	ppm	ASTM D5185m >400	<b>24</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>35</b>	---	---
Fuel	%	ASTM D3524 >4.0	<b>&lt;1.0</b>	---	---
Glycol	%	*ASTM D2982	<b>NEG</b>	---	---

## INFRA-RED

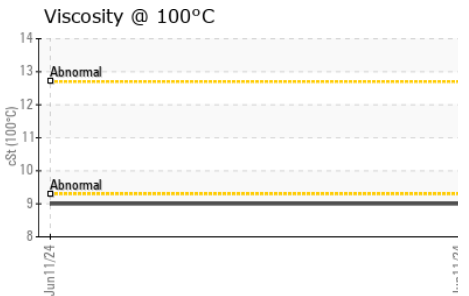
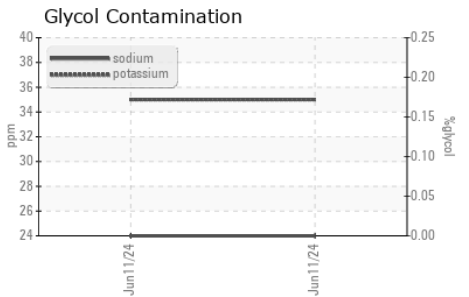
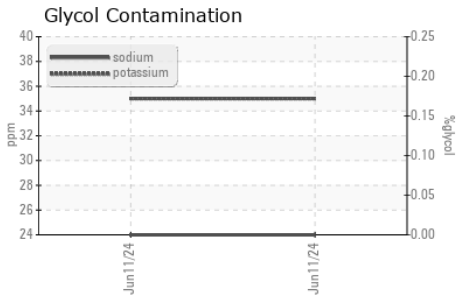
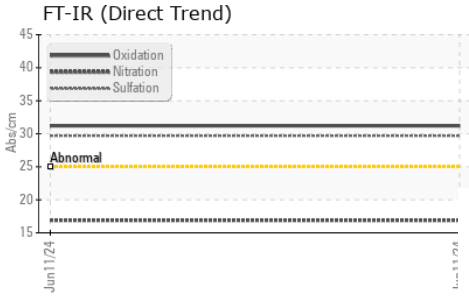
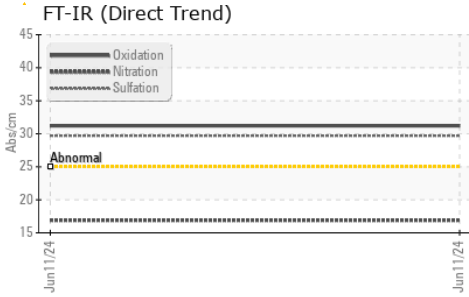
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>16.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>29.7</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>31.2</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>▲ 3.28</b>	---	---



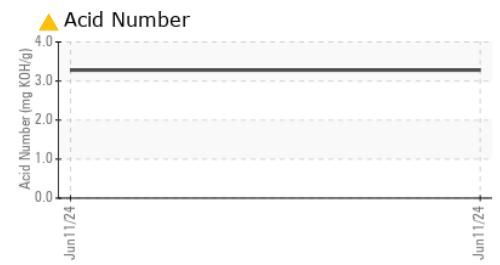
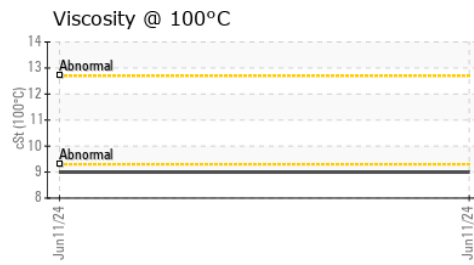
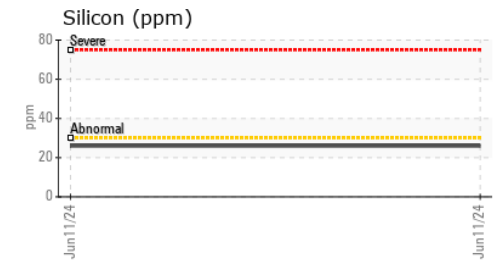
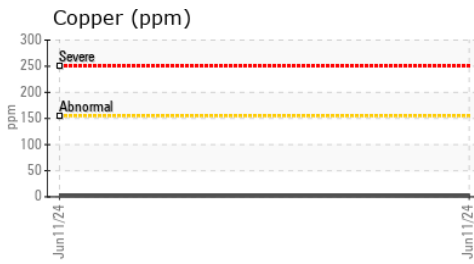
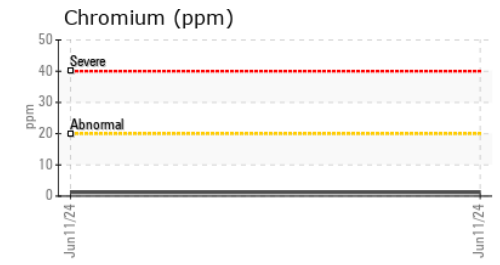
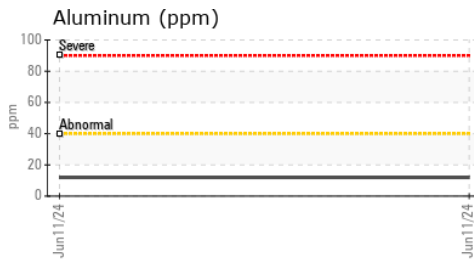
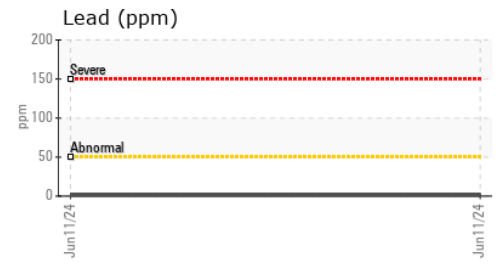
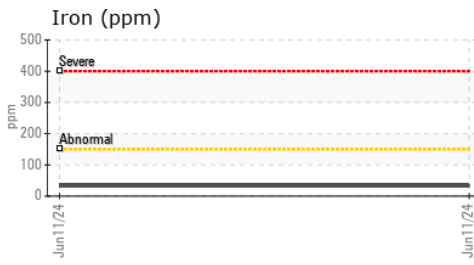
# OIL ANALYSIS REPORT



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	9.0	---	---

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WCM2005021

Lab Number : 06210338

Unique Number : 11083202

Test Package : MOB 2 ( Additional Tests: FuelDilution, Glycol, PercentFuel )

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)

Received : 14 Jun 2024

Tested : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Jonathan Hester

SOUTHERN AUTOMOTIVE CONSULTING

P.O. BOX 730

CREEDMOOR, NC

US 27522

Contact: ANDREW MORTON

andymorton711@yahoo.com

T:

F: