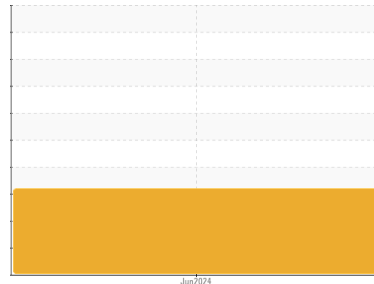




# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id  
**TOYOTA 24109A**  
 Component  
**Gasoline Engine**  
 Fluid  
 {not provided} (--- GAL)

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### ▲ Contamination

Light fuel dilution occurring. There is a high concentration of water present in the oil. Test for glycol is negative. No other contaminants were detected in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0855947</b>	---	---
Sample Date	Client Info		<b>20 Jun 2024</b>	---	---
Machine Age	kms	Client Info	<b>0</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>4</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>40	<b>2</b>	---
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	---
Copper	ppm	ASTM D5185(m)	>155	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>95</b>	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)		<b>68</b>	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185(m)		<b>526</b>	---
Calcium	ppm	ASTM D5185(m)		<b>1198</b>	---
Phosphorus	ppm	ASTM D5185(m)		<b>639</b>	---
Zinc	ppm	ASTM D5185(m)		<b>732</b>	---
Sulfur	ppm	ASTM D5185(m)		<b>2460</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

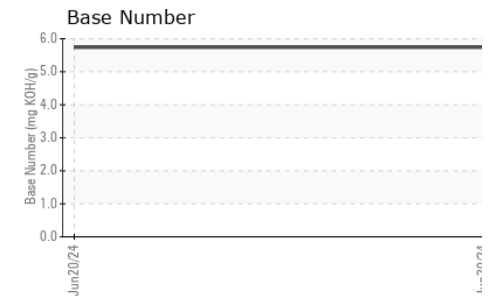
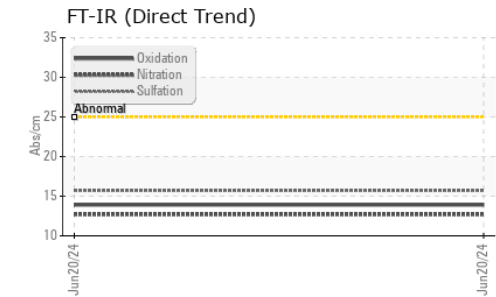
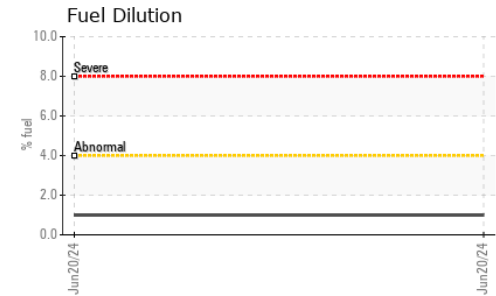
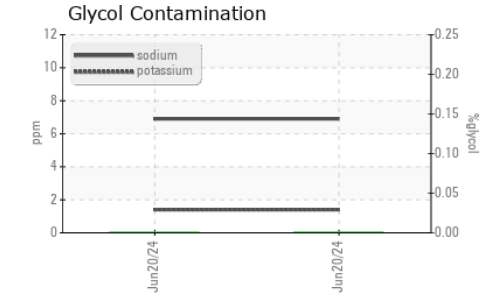
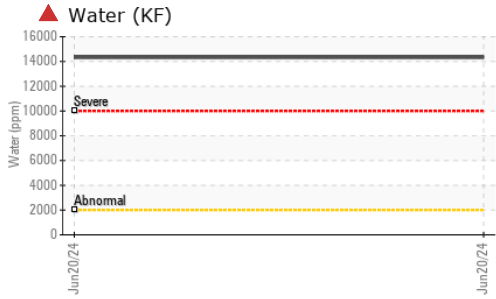
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<b>18</b>	---
Sodium	ppm	ASTM D5185(m)	>400	<b>7</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---
Fuel	%	ASTM D7593*	>4.0	<b>1</b>	---
Water	%	ASTM D6304*	>0.2	<b>▲ 1.432</b>	---
ppm Water	ppm	ASTM D6304*	>2000	<b>▲ 14329</b>	---
Glycol	%	ASTM D7922*		<b>0.0</b>	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.7</b>	---
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>15.7</b>	---



# OIL ANALYSIS REPORT

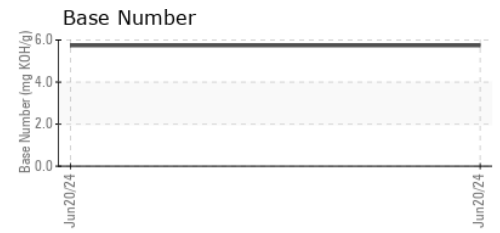
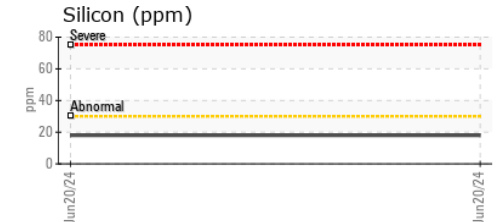
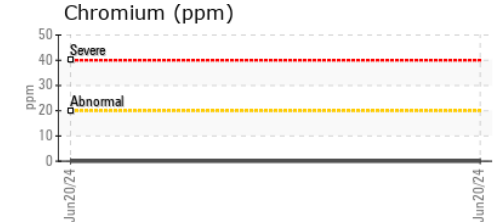
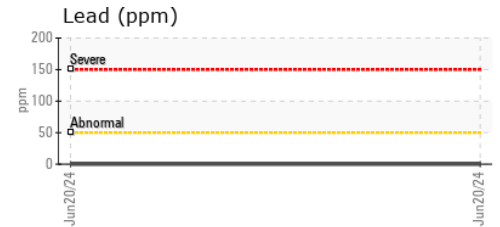
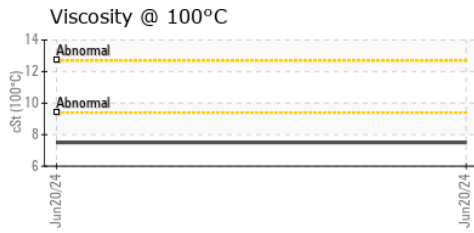
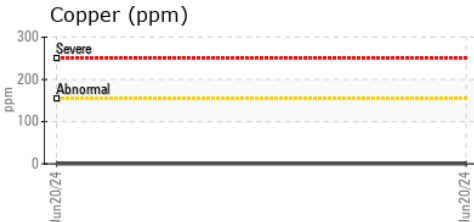
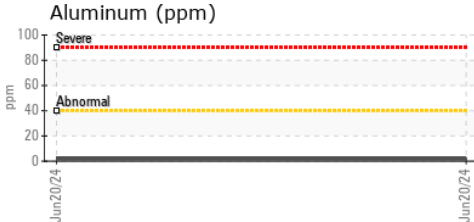
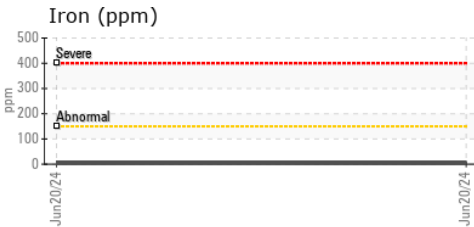


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>13.9</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>5.74</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>▲.2%</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)		<b>7.5</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0855947 **Received** : 26 Jun 2024  
**Lab Number** : **02644153** **Tested** : 27 Jun 2024  
**Unique Number** : 5801692 **Diagnosed** : 27 Jun 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, Glycol, KF, PercentFuel )

**Colosi Vehicle Investigations**  
 PO Box 30023  
 Niagara Falls, ON  
 CA L2H 0C1  
 Contact: Russ Colosi  
 russ@colosi.ca  
 T: (289)294-0702  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.