

Machine Id  
**TOYOTA 2019 TOYOTA 4-RUNNER**

Component  
**Gasoline Engine**  
Fluid  
**TOYOTA 0W20 (--- GAL)**

**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

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

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

**Fluid Condition**  
The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PC0081839</b>	---	---
Sample Date	Client Info	<b>02 Mar 2024</b>	---	---
Machine Age	kms	Client Info	<b>69746</b>	---
Oil Age	kms	Client Info	<b>8200</b>	---
Oil Changed	Client Info	<b>Changed</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 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>3</b>	---	---
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>155	<b>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)	162	<b>11</b>	---	---
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	642	<b>69</b>	---	---
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	593	<b>410</b>	---	---
Calcium	ppm	ASTM D5185(m)	1326	<b>1100</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	646	<b>626</b>	---	---
Zinc	ppm	ASTM D5185(m)	793	<b>679</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2296	<b>1757</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

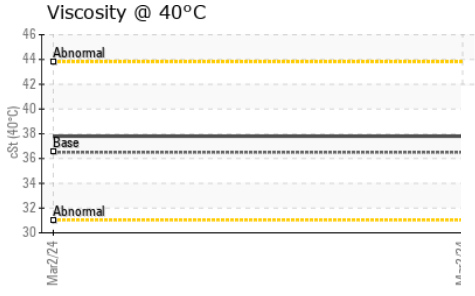
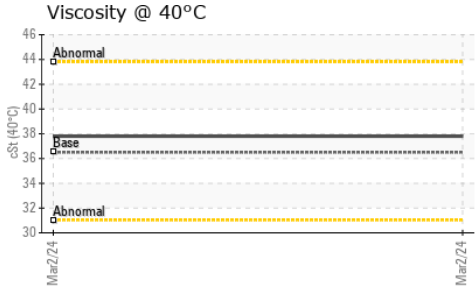
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>30	<b>21</b>	---	---
Sodium	ppm	ASTM D5185(m)	>400	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m)	>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>11.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.4</b>	---	---

# OIL ANALYSIS REPORT

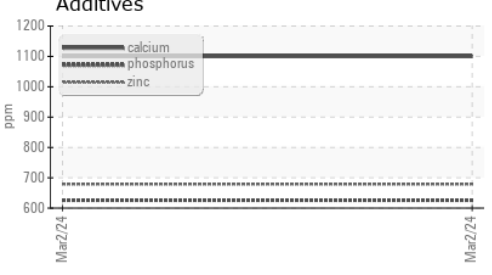
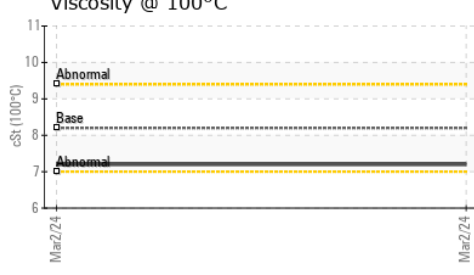
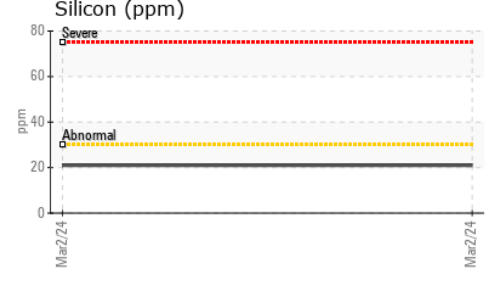
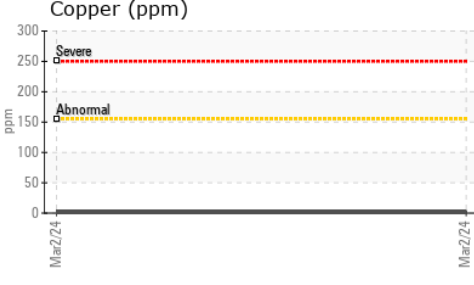
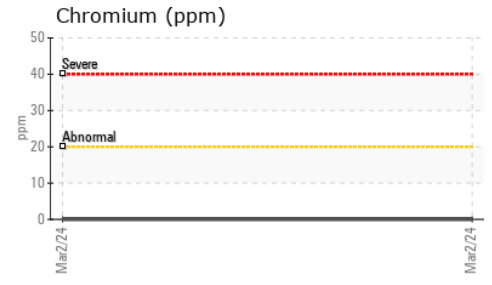
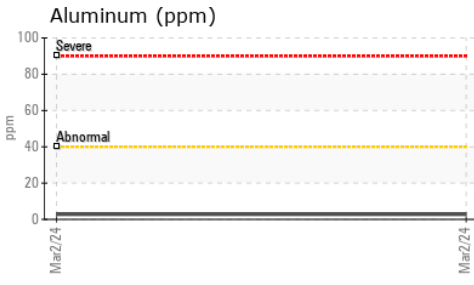
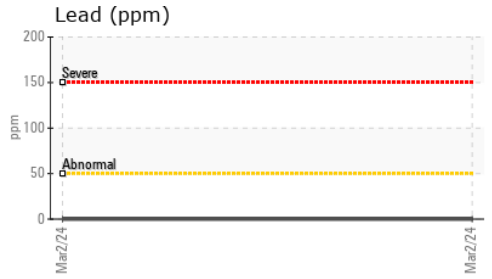
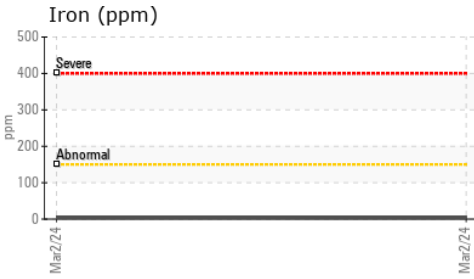


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>14.8</b>	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	36.5	<b>37.8</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	8.2	<b>7.2</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	209	<b>157</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081839      **Received** : 08 Mar 2024  
**Lab Number** : 02620815      **Tested** : 08 Mar 2024  
**Unique Number** : 5737925      **Diagnosed** : 11 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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.

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