



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Machine Id
TOYOTA DER 4916

Component
Gasoline Engine
Fluid
NOT GIVEN (--- GAL)



DIAGNOSIS

▲ Recommendation

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. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 0W40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

▲ Wear

Silver ppm levels are abnormal. We have assumed that this component is not breaking in (age of component not reported).

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0730767	---	---
Sample Date	Client Info		20 Aug 2023	---	---
Machine Age	kms	Client Info	0	---	---
Oil Age	kms	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	6	---
Chromium	ppm	ASTM D5185(m)	>20	0	---
Nickel	ppm	ASTM D5185(m)	>5	<1	---
Titanium	ppm	ASTM D5185(m)		2	---
Silver	ppm	ASTM D5185(m)	>2	▲ 4	---
Aluminum	ppm	ASTM D5185(m)	>40	3	---
Lead	ppm	ASTM D5185(m)	>50	1	---
Copper	ppm	ASTM D5185(m)	>155	5	---
Tin	ppm	ASTM D5185(m)	>10	0	---
Antimony	ppm	ASTM D5185(m)		0	---
Vanadium	ppm	ASTM D5185(m)		0	---
Beryllium	ppm	ASTM D5185(m)		0	---
Cadmium	ppm	ASTM D5185(m)		0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		18	---
Barium	ppm	ASTM D5185(m)		0	---
Molybdenum	ppm	ASTM D5185(m)		32	---
Manganese	ppm	ASTM D5185(m)		8	---
Magnesium	ppm	ASTM D5185(m)		86	---
Calcium	ppm	ASTM D5185(m)		2794	---
Phosphorus	ppm	ASTM D5185(m)		947	---
Zinc	ppm	ASTM D5185(m)		1001	---
Sulfur	ppm	ASTM D5185(m)		2853	---
Lithium	ppm	ASTM D5185(m)		<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	10	---
Sodium	ppm	ASTM D5185(m)	>400	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---

INFRA-RED

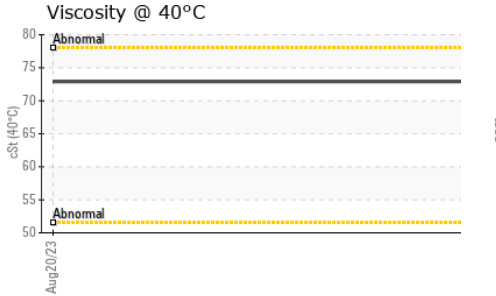
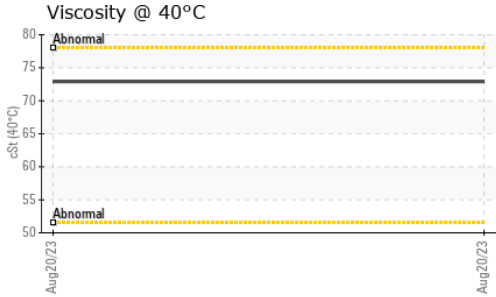
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.3	---



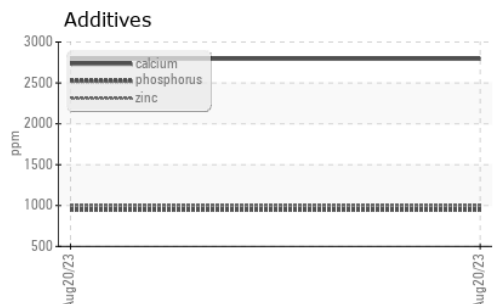
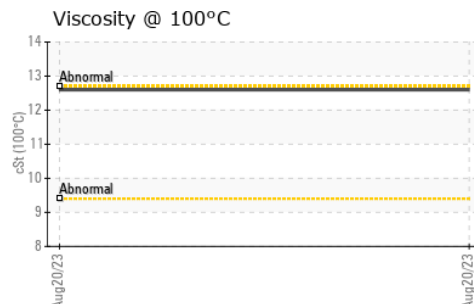
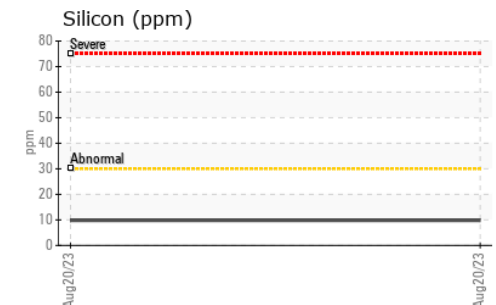
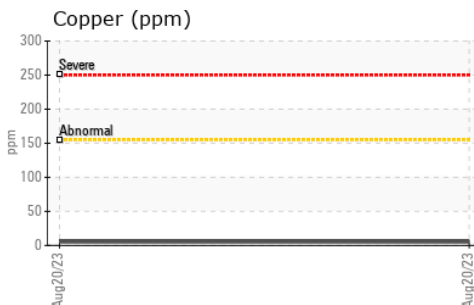
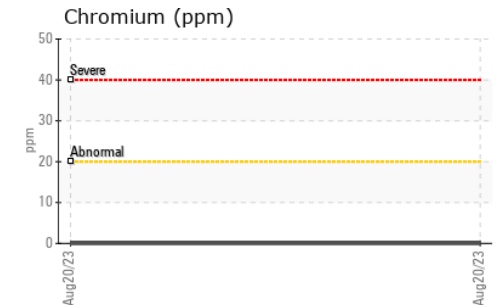
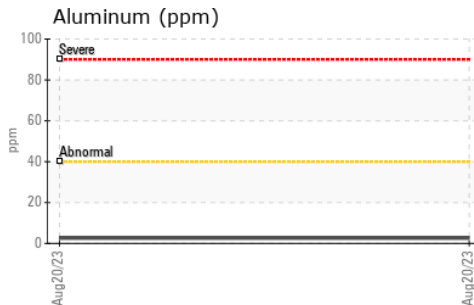
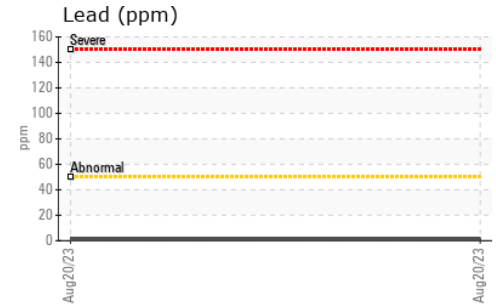
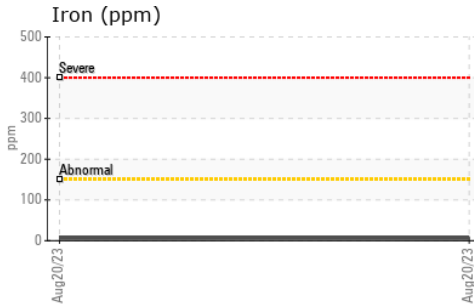
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	72.9	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	173	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0730767 **Received** : 21 Aug 2023
Lab Number : 02577150 **Diagnosed** : 21 Aug 2023
Unique Number : 5630210 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, VI)

VIII MOTORSPORTS
 227 ADVANCE BLVD, UNIT 10
 BRAMPTON, ON
 CA L6T 4J3
 Contact: Luke Lay

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.

T: (905)457-4547
 F: