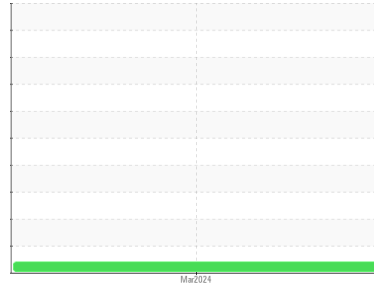




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
TOYOTA LANDCRUISER FMC042

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0892427	---	---
Sample Date	Client Info		19 Mar 2024	---	---
Machine Age	hrs	Client Info	264	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	40	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >4	0	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	4	---	---
Lead	ppm	ASTM D5185(m) >40	1	---	---
Copper	ppm	ASTM D5185(m) >330	75	---	---
Tin	ppm	ASTM D5185(m) >15	5	---	---
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) 250	37	---	---
Barium	ppm	ASTM D5185(m) 10	2	---	---
Molybdenum	ppm	ASTM D5185(m) 100	101	---	---
Manganese	ppm	ASTM D5185(m)	1	---	---
Magnesium	ppm	ASTM D5185(m) 450	41	---	---
Calcium	ppm	ASTM D5185(m) 3000	4133	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	1048	---	---
Zinc	ppm	ASTM D5185(m) 1350	1289	---	---
Sulfur	ppm	ASTM D5185(m) 4250	3475	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

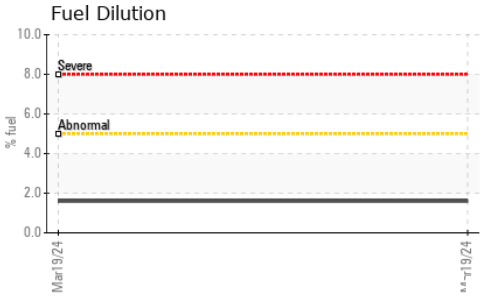
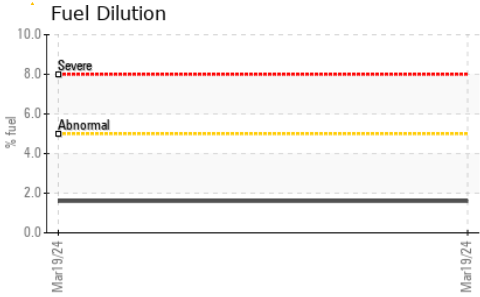
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Silicon	ppm	ASTM D5185(m) >25	128	---	---
Sodium	ppm	ASTM D5185(m) >158	10	---	---
Potassium	ppm	ASTM D5185(m) >20	2	---	---
Fuel	%	ASTM D7593* >5	1.6	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.2	---	---
Nitration	Abs/cm	ASTM D7624* >20	6.8	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	16.7	---	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	8.7	---

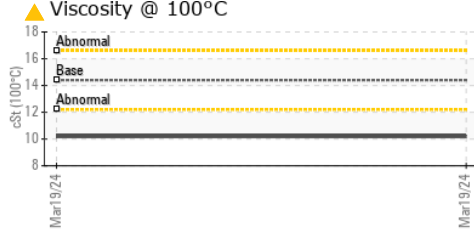
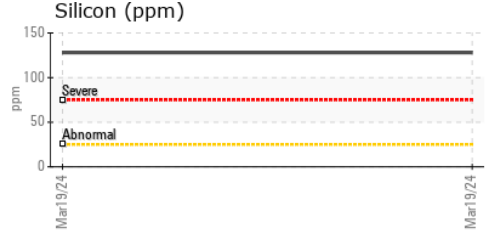
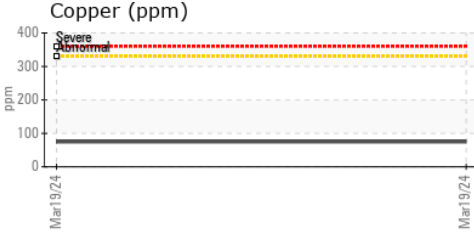
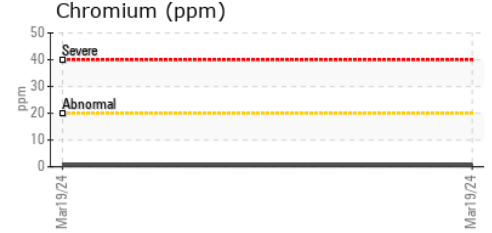
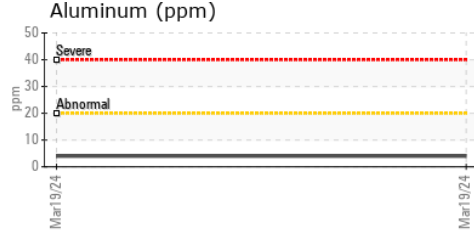
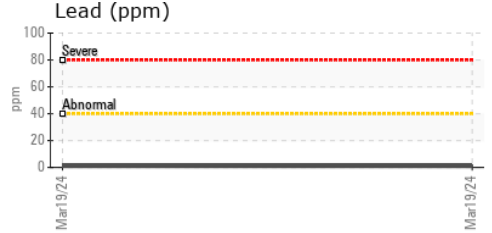
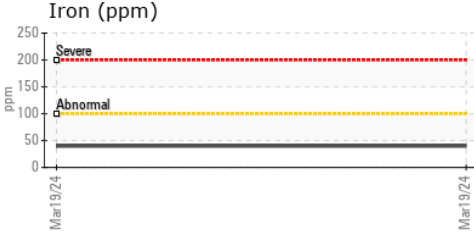
VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
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 D7279(m)	14.4	▲ 10.2	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0892427 **Received** : 26 Mar 2024
Lab Number : **02624625** **Tested** : 27 Mar 2024
Unique Number : 5749744 **Diagnosed** : 27 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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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.