



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TOYOTA SIENNA 2014 16-GAUF-01-001-M (S/N KNDUP131956680587)

Component
V6 3.5L V6 3.5L Front Gasoline Engine

Fluid
GASOLINE ENGINE OIL SAE 5W20 (6 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	#5 Current	#4 History1	#3 History2
Sample Number				WC110374	WC104927	WC994119
Sample Date				04 Mar 2018	02 Dec 2017	28 Jul 2017
Machine Age	kms			129925	119774	103435
Oil Age	kms			10151	16339	17119
Filter Age	kms			10151	16339	17119
Oil Changed				Not Changd	Not Changd	Not Changd
Filter Changed				Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185	>150	61	6.6	7.5
Chromium	ppm	ASTM D5185	>20	1.0	0.1	0.3
Manganese	ppm	ASTM D5185		5.0	0.4	0.6
Nickel	ppm	ASTM D5185	>5	1.0	0.1	0.1
Titanium	ppm	ASTM D5185		0.1	0.0	0.0
Silver	ppm	ASTM D5185	>2	0.0	0.0	0.0
Aluminum	ppm	ASTM D5185	>40	16	3.4	3.6
Lead	ppm	ASTM D5185	>50	0.9	0.0	0.5
Copper	ppm	ASTM D5185	>155	17	3.6	11
Tin	ppm	ASTM D5185	>10	0.0	0.0	0.0
Vanadium	ppm	ASTM D5185		0.1	0.0	0.0

CONTAMINATION

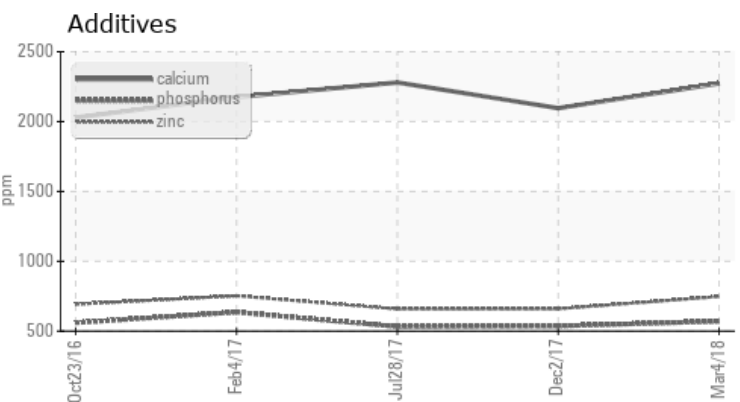
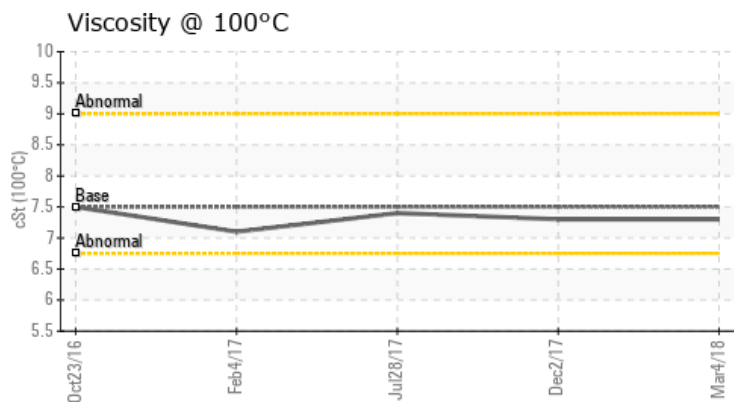
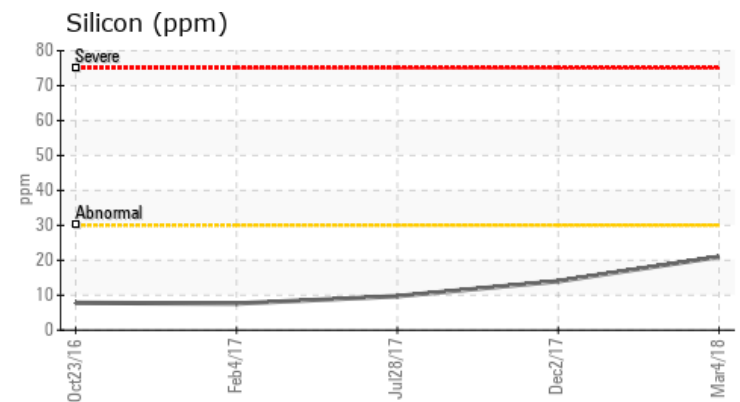
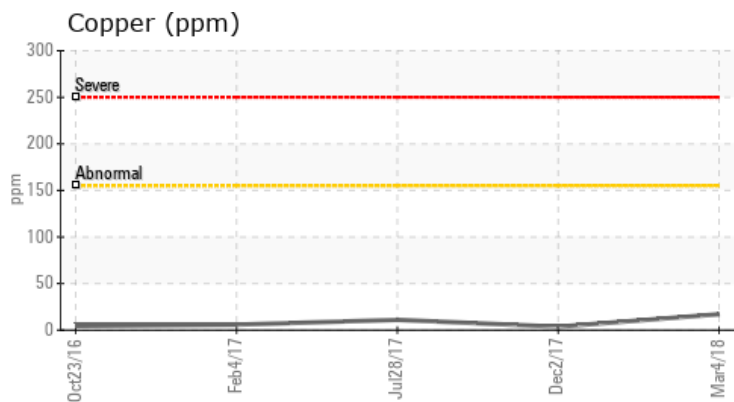
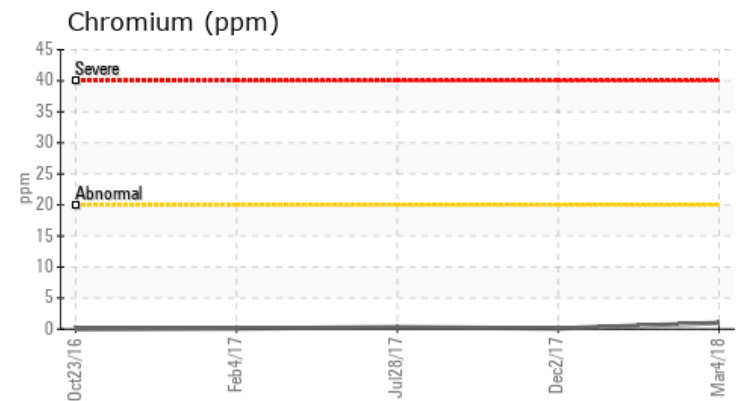
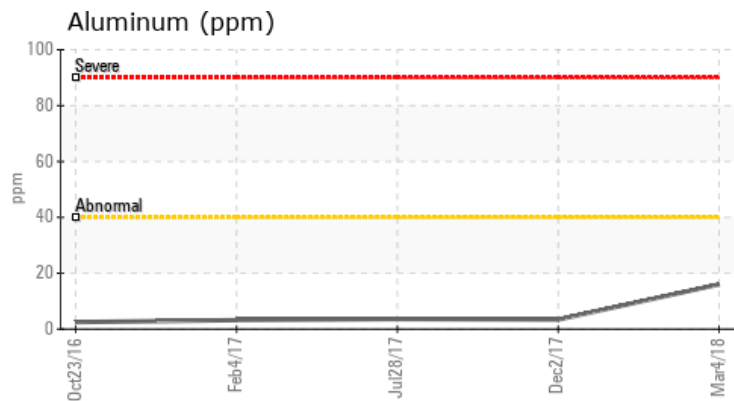
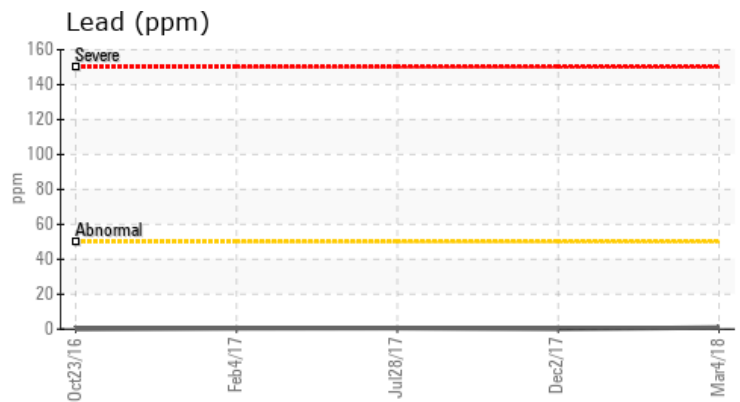
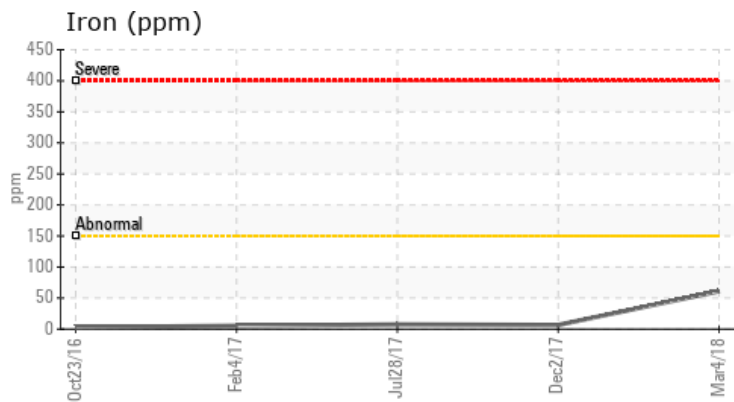
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>30	21	14	9.7
Potassium	ppm	ASTM D5185	>20	1.8	2.0	1.7
Fuel		ASTM D3524	>4.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686		0	0	0
Nitration (PA)	%	ASTM D7624	>100	66	57	55
Sulfation (PA)	%	ASTM D7415	>100	75	73	70
Emulsified Water	scalar	Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185		6.0	0.5	2.9
Boron	ppm	ASTM D5185	75	0.4	0.2	0.4
Barium	ppm	ASTM D5185	5	0.0	0.0	0.1
Molybdenum	ppm	ASTM D5185	100	86	76	43
Magnesium	ppm	ASTM D5185	12	17	11	10
Calcium	ppm	ASTM D5185	2100	2273	2096	2280
Phosphorus	ppm	ASTM D5185	650	570	536	532
Zinc	ppm	ASTM D5185	850	747	659	658
Sulfur	ppm	ASTM D5185	2500	2829	2655	2796
Oxidation (PA)	%	ASTM D7414	>100	81	61	60
Visc @ 40°C	cSt	ASTM D7279	44	39.2	39.8	---
Visc @ 100°C	cSt	ASTM D7279	7.5	7.3	7.3	7.4
Viscosity Index (VI)	Scale	ASTM D2270	162	153	149	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC110374 **Received** : 19 Mar 2018
Lab Number : 02204601 **Diagnosed** : 19 Mar 2018
Unique Number : 4655723 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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 To change component or sample information, contact Customer Service at 1-800-268-2131.