



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
TOYOTA 16-GAUF-01-001-M
 Component
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	#8 Current	#7 History1	#6 History2
Sample Number				WC0389216	WC0323755	WC113771
Sample Date				12 Oct 2019	09 Mar 2019	01 Dec 2018
Machine Age	kms			184473	164768	154889
Oil Age	kms			19205	34853	24974
Filter Age	kms			19205	34853	24974
Oil Changed				Not Changd	Not Changd	Not Changd
Filter Changed				Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185	>150	28	61	24
Chromium	ppm	ASTM D5185	>20	<1	1	<1
Nickel	ppm	ASTM D5185	>5	<1	<1	<1
Titanium	ppm	ASTM D5185		<1	<1	0
Silver	ppm	ASTM D5185	>2	0	0	0
Aluminum	ppm	ASTM D5185	>40	9	19	8
Lead	ppm	ASTM D5185	>50	<1	<1	<1
Copper	ppm	ASTM D5185	>155	4	7	5
Tin	ppm	ASTM D5185	>10	0	0	0
Vanadium	ppm	ASTM D5185		<1	0	0

CONTAMINATION

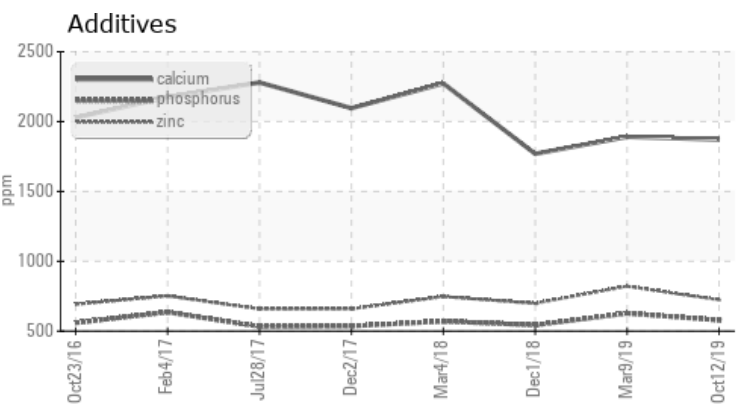
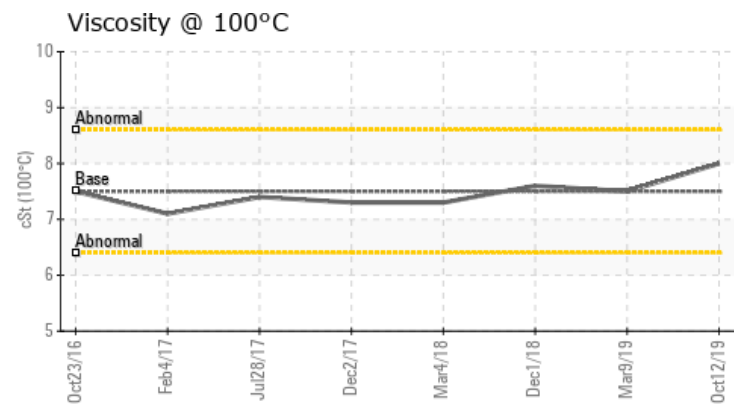
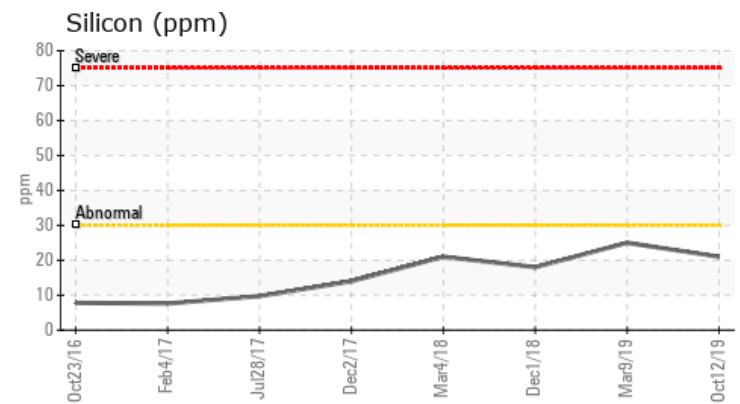
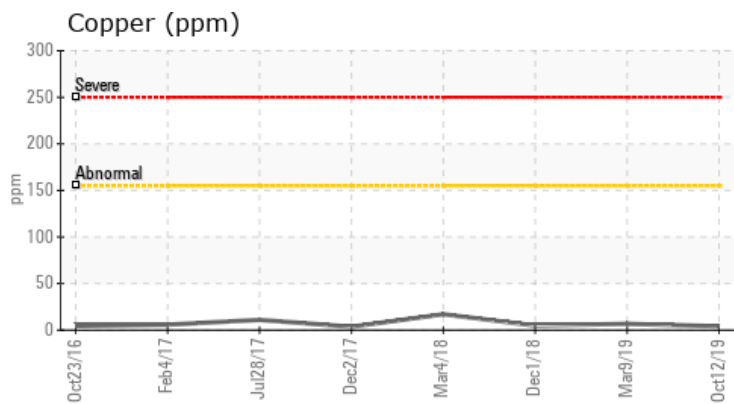
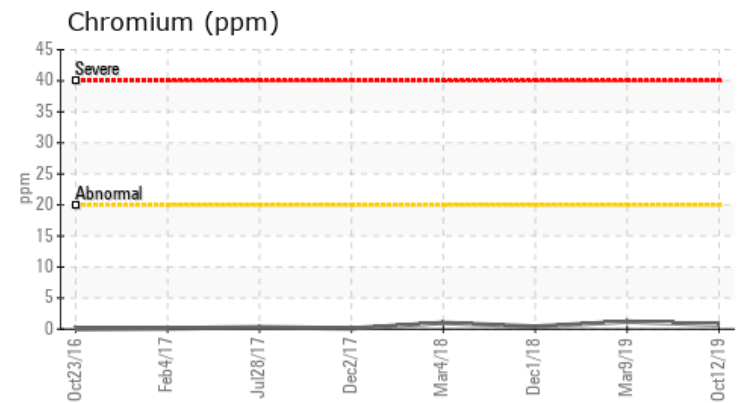
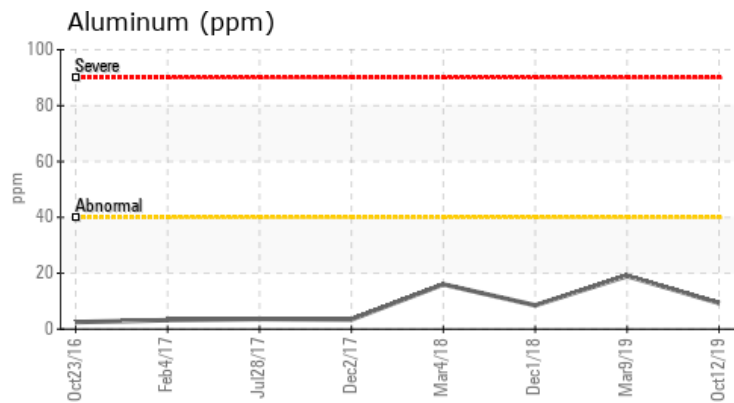
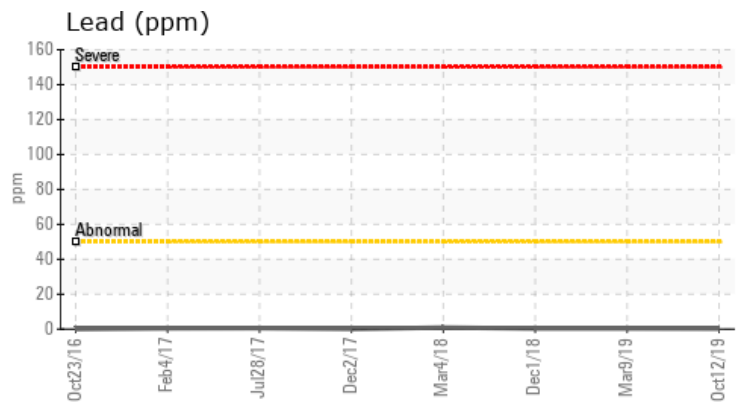
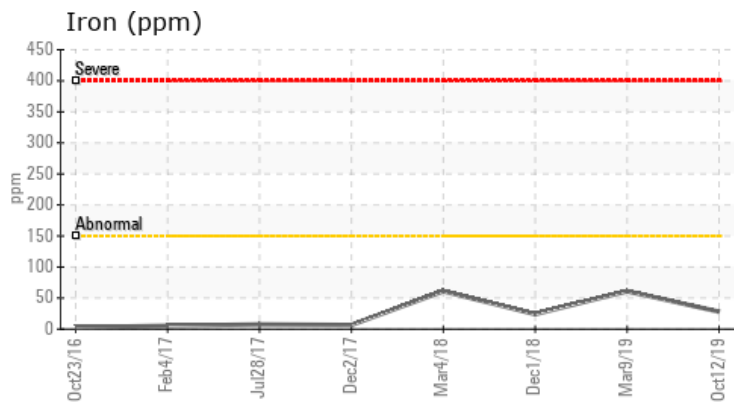
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185	>30	21	25	18
Potassium	ppm	ASTM D5185	>20	1	2	<1
Fuel		ASTM D3524	>4.0	<1.0	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686		0	0	0
Nitration	Abs/cm	ASTM D7624	>20	14.0	17.2	14.4
Sulfation	Abs/.1mm	ASTM D7415	>30	28.9	35.9	30.5
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	>50	5	9	6
Boron	ppm	ASTM D5185	75	24	8	9
Barium	ppm	ASTM D5185	5	<1	0	0
Molybdenum	ppm	ASTM D5185	100	165	105	96
Manganese	ppm	ASTM D5185		1	2	1
Magnesium	ppm	ASTM D5185	12	102	152	137
Calcium	ppm	ASTM D5185	2100	1871	1891	1769
Phosphorus	ppm	ASTM D5185	650	578	627	543
Zinc	ppm	ASTM D5185	850	723	821	698
Sulfur	ppm	ASTM D5185	2500	1869	2462	2267
Oxidation	Abs/.1mm	ASTM D7414	>25	20.8	29.4	23.0
Visc @ 100°C	cSt	ASTM D7279	7.5	8.0	7.5	7.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0389216 **Received** : 29 Oct 2019
Lab Number : 02316952 **Diagnosed** : 29 Oct 2019
Unique Number : 4952247 **Diagnostician** : Kevin Marson
Test Package : MOB 1

Adrenalube - 9042628 Canada Inc
 3755 - E Boul Matte
 Brossard, QC
 Canada J4Y 2P4
 Contact: Pierre Beauchamp
 support-tech@adrenalube.com
 T: (514)999-5546
 F:

To discuss diagnosis or test data, contact Technical Support at 1-800-268-2131.
 To change component or sample information, contact Customer Service at 1-800-268-2131.