



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**HONDA CIVIC 2010 17-LAVN-01-001-M (S/N 2HGFA1F44AH032312)**

Component  
**Front Gasoline Engine**

Fluid  
**PETRO CANADA SUPREME 20W50 MOTOR OIL (4 LTR)**

#7 #6 #5

**RECOMMENDATION**

Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number				WC0355052	WC113941	WC113350
Sample Date				28 Aug 2019	11 Jan 2019	05 Oct 2018
Machine Age	kms			0	376666	363196
Oil Age	kms			27272	48503	35033
Filter Age	kms			27272	48503	35033
Oil Changed				Not Changed	Not Changed	Not Changed
Filter Changed				Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185	>150	15	19	10
Chromium	ppm	ASTM D5185	>20	<1	<1	<1
Nickel	ppm	ASTM D5185	>5	<1	<1	0
Titanium	ppm	ASTM D5185		<1	<1	<1
Silver	ppm	ASTM D5185	>2	0	0	0
Aluminum	ppm	ASTM D5185	>40	5	9	6
Lead	ppm	ASTM D5185	>50	1	<1	<1
Copper	ppm	ASTM D5185	>155	<1	<1	<1
Tin	ppm	ASTM D5185	>10	0	0	0
Vanadium	ppm	ASTM D5185		<1	<1	<1

**CONTAMINATION**

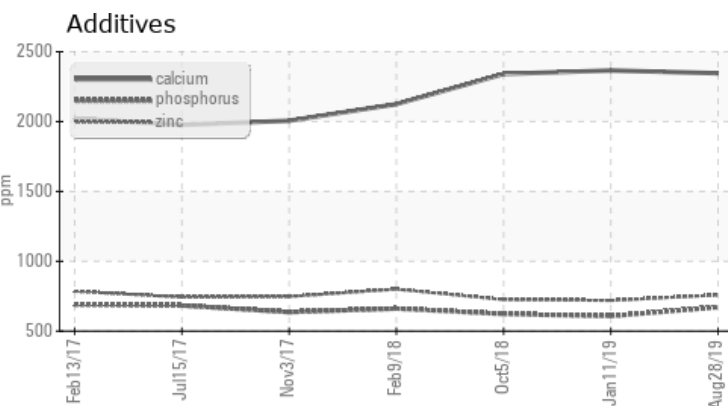
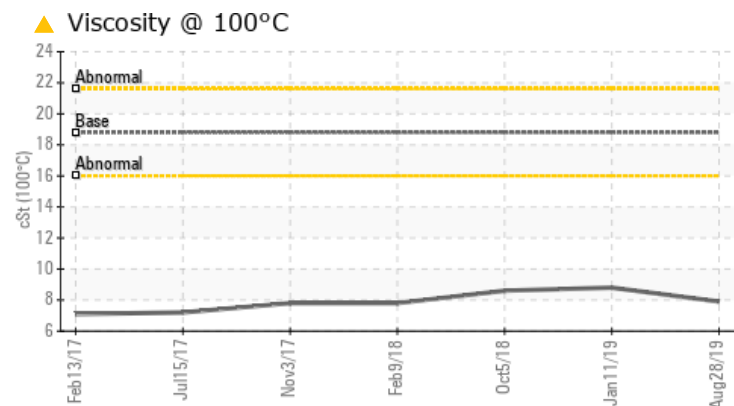
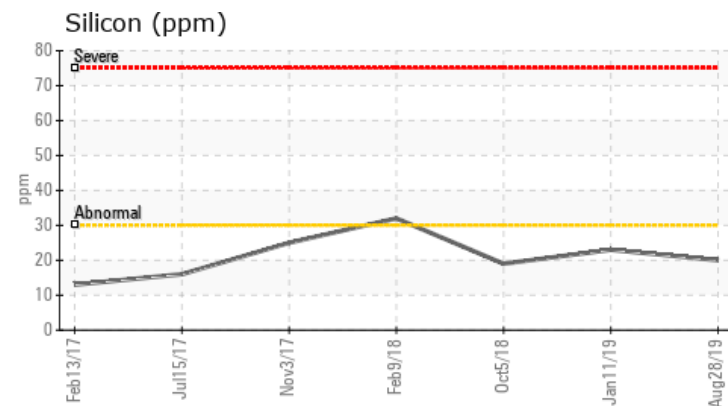
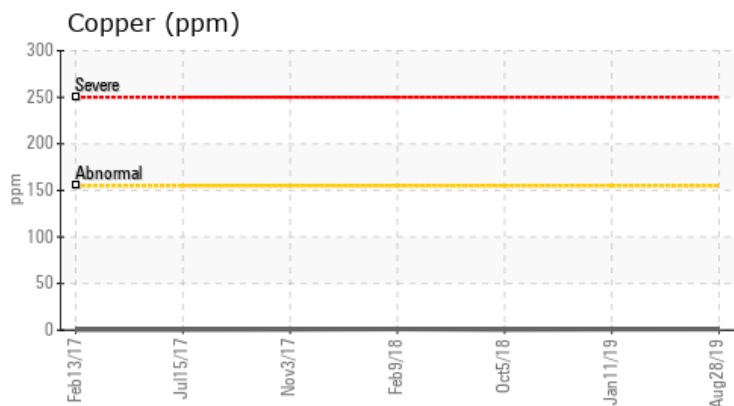
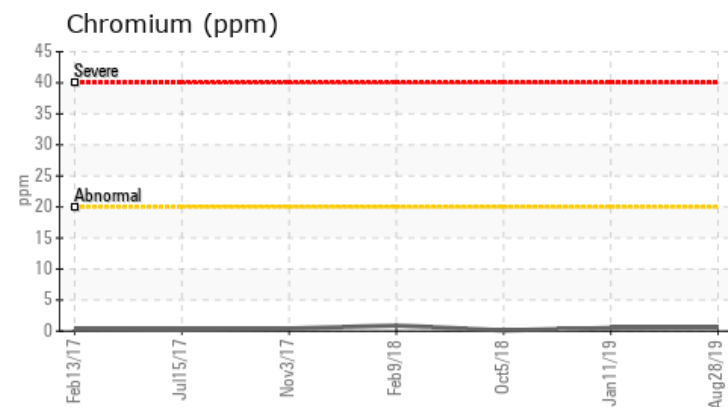
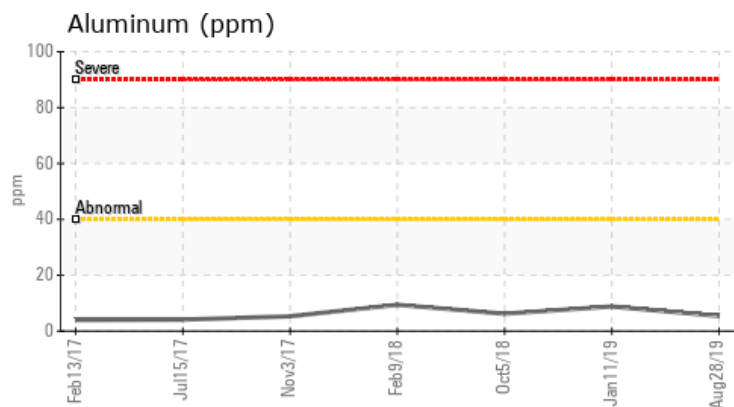
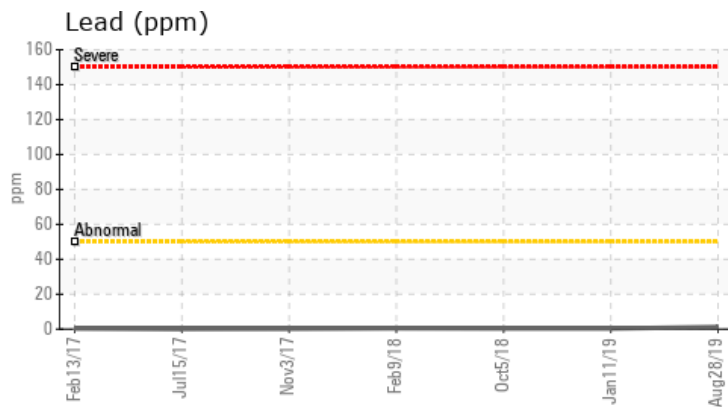
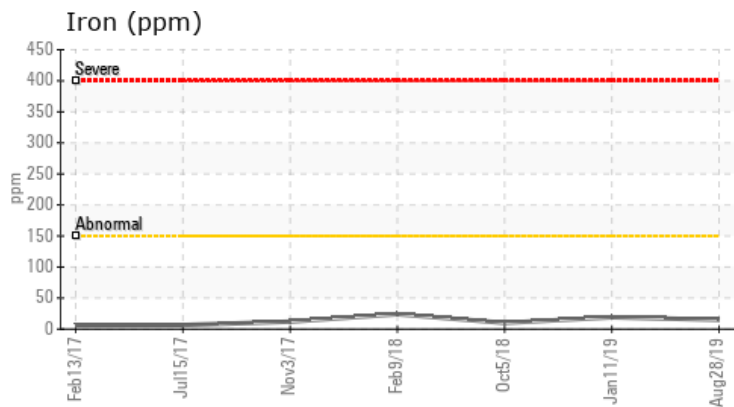
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185	>30	20	23	19
Potassium	ppm	ASTM D5185	>20	2	<1	<1
Fuel	%	ASTM D3524	>4.0	1.9	<1.0	<1.0
Glycol		ASTM D2982		NEG	NEG	NEG
Soot %	%	ASTM D7686		0	0	0
Nitration	Abs/cm	ASTM D7624	>20	15.7	17.7	14.4
Sulfation	Abs/.1mm	ASTM D7415	>30	33.8	35.5	29.4
Emulsified Water	scalar	Visual	>0.2	NEG	NEG	NEG

**FLUID CONDITION**

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185	>400	12	9	5
Boron	ppm	ASTM D5185	177	6	25	32
Barium	ppm	ASTM D5185	0	<1	0	0
Molybdenum	ppm	ASTM D5185	39	65	116	112
Manganese	ppm	ASTM D5185	0	<1	<1	<1
Magnesium	ppm	ASTM D5185	418	14	24	22
Calcium	ppm	ASTM D5185	1303	2346	2366	2341
Phosphorus	ppm	ASTM D5185	758	671	607	622
Zinc	ppm	ASTM D5185	839	759	719	725
Sulfur	ppm	ASTM D5185	2660	2751	2429	2379
Oxidation	Abs/.1mm	ASTM D7414	>25	25.9	28.0	20.5
Visc @ 100°C	cSt	ASTM D7279	18.8	7.9	8.8	8.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0355052      **Received** : 29 Aug 2019  
**Lab Number** : 02305724      **Diagnosed** : 03 Sep 2019  
**Unique Number** : 4917000      **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

**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.