Lubricant Analysis Report

North America: +1-877-458-3315

0	1	2	3	4
NORMAL		ABNORMAL		CRITICAL

Overall report severity based on comments.

Account Information		Component Information		Sample Information	
Account Number:		Component ID:	WOP SI E	Tracking Number:	17130U05859
Company Name:		Secondary ID:	2017 HONDA CIVIC Si	Lab Number:	I-987924
Contact:		Component Type:	UNLEADED GASOLINE ENGINE	Lab Location:	Indianapolis
Address:		Manufacturer:	HONDA	Data Analyst:	SAT
		Model:	1.5L TURBO	Sampled:	05-Aug-2018
Phone Number:		Application:	AUTOMOTIVE	Received:	09-Aug-2018
		Sump Capacity:	4 qt	Completed:	10-Aug-2018

Filter Information		Miscellaneous Information	Product Information	
Filter Type:	CARTRIDGE		Product Manufacturer:	HONDA
Micron Rating:	0		Product Name:	FACTORY FILL
			Viscosity Grade:	SAE 0W20

Comments Suggest monitoring the drain interval and equipment operating temperature. Base Number is SIGNIFICANTLY LOW. Lubricant's ability to neutralize acids may be diminished. Check for source of FUEL LEAK. Fuel is at a SIGNIFICANT LEVEL. Fuel dilution may be caused by component faults related to injectors, ignition/timing or excessive blow-by. Additional causes include heavy throttle application, engine lugging, frequent short trips, and excessive idling. FUEL DILUTION reduces the viscosity of the lubricant which decreases FILM STRENGTH and LUBRICITY and may lead to increased wear. Lubricant and filter change acknowledged. Resample at half interval. Sample information has been added or tests have been rerun or additional testing was added and the report has been regenerated.

	Wear Metals (ppm)										Contaminant Metals (ppm)			Multi-Source Metals (ppm)						Additive Metals (ppm)				
Sample #	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
1	18	1	0	4	0	2	0	0	0	0	11	24	0	0	4	0	0	0	1	859	1058	0	779	849

	Sample Information							Contaminants			Fluid Properties					
Sample #	Date Sampled	Date Received	Lube Time	Unit Time	Lube Change	Lube Added	Filter Change	Fuel Dilution	Soot	Water	Viscosity 40°C	Viscosity 100 °C	Acid Number	Base No. D4739	Oxidation	Nitration
			mi	mi		qt		% Vol	% Vol	% Vol	cSt	cSt	mg KOH/g	mg KOH/g	abs/cm	abs/0.1 mm
1	05-Aug-2018	09-Aug-2018	5926	5926	Yes	0	Yes	3.7 - GC	<.1	<.1 - FTIR		6.3		1.72	16	9

	Particle Count (particles/mL)										Additional Testing
Sample #	ISO Code Based On 4/6/14	> 4 µm	> 6 µm	> 10 µm	> 14 µm	> 21 µm	> 38 µm	> 70 µm	> 100 µm	Test Method	
1	//										

Comments are advisory only and are based on the assumption that the sample and data submitted are valid. Missing fluid or component information limits the evaluation. No warranty is expressed or implied. Measurement uncertainty available upon request.

Historical Comments