OIL REPORT

LAB NUMBER:
REPORT DATE: 3/6/2018
CODE: 44/32

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: Honda 1.5L (L15B7) DI Turbo
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Quaker State Ultimate Durability
OIL USE INTERVAL: 5,113 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

The flashpoint read low in this sample, suggesting fuel dilution at2.3% of the sample. That's quite a bit of fuel and could show a problem, though we're hoping that a lot of this is operational in nature, from something like idling, city driving, or just sampling cold. The viscosity actually read within the expected range, so the fuel dilution didn't thin the oil out of spec, and wear numbers all look fine for the interval. Note the improvement in copper, as we expected, showing wear-in material washing out. Check back to see if fuel dilution lingers. Otherwise, nice!

ELEMENTS IN PARTS PER MILLION

			UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Oil	5,113		4,973					
	MI/HR on Unit	12,603		6,098					
	Sample Date	2/21/2018		10/9/2017					
	Make Up Oil Added	0 qts							
	ALUMINUM	13	13	13					10
	CHROMIUM	1	1	0					1
	IRON	12	11	10					15
	COPPER	4	6	**7**					3
	LEAD	0	0	0					0
	TIN	0	0	0					0
	MOLYBDENUM	197	179	161					103
	NICKEL	0	0	0					0
	MANGANESE	1	2	2					1
	SILVER	0	0	0					0
	TITANIUM	0	0	0					2
	POTASSIUM	2	1	0					4
	BORON	16	76	136					66
	SILICON	20	26	32					24
	SODIUM	4	6	7					21
	CALCIUM	2006	2662	3317					1725
	MAGNESIUM	11	21	30					264
	PHOSPHORUS	694	776	858					663
	ZINC	734	840	946					719
	BARIUM	0	0	0					0

PROPERTIES

		Values Should Be*					
	SUS Viscosity @ 210°F	48.1	46-57	**52.0**			
	cSt Viscosity @ 100°C	6.70	6.0-9.7	**7.88**			
	Flashpoint in °F	**340**	>385	**370**			
	Fuel %	**2.3**	<2.0	0.8			
	Antifreeze %	0.0	0.0	0.0			
	Water %	0.0	<0.1	0.0			
	Insolubles %	0.5	<0.6	0.2			
	TBN						
	TAN						
	ISO Code						

*** THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE**

416 E. PETTIT AVE. FORT WAYNE, IN 46806 (260) 744-2380 www.blackstone-labs.com