BLACKSTONE LABORATORIES

OIL REPORT

LAB NUMBER:
REPORT DATE: 10/17/2024
CODE: 20/1,430

UNIT ID:
CLIENT ID:
PAYMENT:

UNIT

EQUIP. MAKE/MODEL: Honda 2.0L (K20) Turbo 4 cyl
FUEL TYPE: Gasoline (Unleaded)
ADDITIONAL INFO:

OIL TYPE & GRADE: Pennzoil Ultra Platinum 5W/30
OIL USE INTERVAL: 4,170 Miles

CLIENT

PHONE:
FAX:
ALT PHONE:
EMAIL:

COMMENTS

Thanks for the notes. Based on the low insolubles reading, it looks like the 9,377 miles was no sweat for the FRAM Ultra oil filter. This 4,170-mile interval wasn't a problem for the engine, either, from what we can tell. Metals are lower, with aluminum, iron, and copper even showing a small drop in piston/bearing, steel, and bronze/brass wear, respectively. The viscosity is a bit low, but that's not a concern since it wasn't due to fuel (see high flashpoint) and it didn't seem to affect wear. The TBN is strong, so if you're up for it, try 7k miles next. Nice Honda!

ELEMENTS IN PARTS PER MILLION

			UNIT / LOCATION AVERAGES						UNIVERSAL AVERAGES
	MI/HR on Oil	4,170		5,800					
	MI/HR on Unit	31,920		22,539					
	Sample Date	9/29/2024		5/13/2024					
	Make Up Oil Added	0 qts		0 qts					
	ALUMINUM	5	10	7					7
	CHROMIUM	0	0	0					0
	IRON	5	9	8					11
	COPPER	1	2	2					3
	LEAD	0	0	0					0
	TIN	0	1	1					0
	MOLYBDENUM	79	123	78					143
	NICKEL	0	0	0					0
	MANGANESE	0	1	0					1
	SILVER	0	0	0					0
	TITANIUM	2	1	1					2
	POTASSIUM	2	4	2					2
	BORON	91	77	87					73
	SILICON	7	15	9					20
	SODIUM	4	6	4					6
	CALCIUM	1070	1106	989					1163
	MAGNESIUM	726	769	677					608
	PHOSPHORUS	549	643	652					667
	ZINC	700	724	706					745
	BARIUM	0	0	0					0

PROPERTIES

		Values Should Be*						
	SUS Viscosity @ 210°F	**54.9**	56-63	50.6				
	cSt Viscosity @ 100°C	**8.74**	9.1-11.3	7.45				
	Flashpoint in °F	410	>385	400				
	Fuel %	<0.5	<2.0	<0.5				
	Antifreeze %	0.0	0.0	0.0				
	Water %	0.0	<0.1	0.0				
	Insolubles %	0.1	<0.6	0.1				
	TBN	4.0	>1.0	3.8				
	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

©COPYRIGHT BLACKSTONE LABORATORIES INC. 2024 LIABILITY LIMITED TO COST OF ANALYSIS