

Report of the Month

Check out this 2009 Ford Focus! Do you see any problems?

To learn more about where the elements are coming from, [click here](#).

UNIT	MAKE/MODEL: Ford 2.0L 4-cyl Duratec FUEL TYPE: Gasoline (Unleaded) ADDITIONAL INFO:	OIL TYPE & GRADE: Mobil 1 High Mileage 5W/20 OIL USE INTERVAL: 7,863 Miles
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COMMENTS	Congrats on getting half a million miles on your Focus. That's pretty darn impressive and the engine is showing no signs of slowing down that we can see. The metals are still low, steady, and properly balanced compared to past samples and universal averages. There is no fuel or coolant contamination to worry about and the air and oil filters had no trouble keeping silicon and insolubles under control. The TBN is 4.9, showing active additive left for a longer run. Try 10,000 miles on the next oil and just keep driving!
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ELEMENTS IN PARTS PER MILLION	MI/HR on Oil	7,863	UNIT / LOCATION AVERAGES	8,200	7,720	5,000	UNIVERSAL AVERAGES
	MI/HR on Unit	500,649		452,280	365,280	350,000	
	Sample Date	1/31/2020		7/29/2019	4/27/2018	3/9/2018	
	Make Up Oil Added			0 qts		0 qts	
ALUMINUM	2	2	2	1	3	3	
CHROMIUM	0	0	0	0	1	1	
IRON	8	8	7	7	8	9	
COPPER	0	0	0	0	0	3	
LEAD	0	0	1	0	0	0	
TIN	0	0	0	0	0	0	
MOLYBDENUM	70	73	70	78	72	88	
NICKEL	0	0	0	0	0	0	
MANGANESE	0	1	0	2	0	1	
SILVER	0	0	0	0	0	0	
TITANIUM	0	0	0	0	0	2	
POTASSIUM	2	2	2	2	2	1	
BORON	47	55	45	61	66	68	
SILICON	4	23	7	13	67	18	
SODIUM	5	6	7	6	4	25	
CALCIUM	1022	1042	1050	1159	935	1837	
MAGNESIUM	700	703	685	788	639	297	
PHOSPHORUS	653	677	655	739	661	720	
ZINC	727	745	734	837	682	826	
BARIUM	0	0	0	0	0	1	

Values
Should Be*

PROPERTIES	SUS Viscosity @ 210°	56.7	46-57	56.3	55.7	56.5
	cSt Viscosity @ 100°C	9.28	6.0-9.7	9.15	8.98	9.20
	Flashpoint in °F	435	>385	425	440	420
	Fuel %	<0.5	<2.0	<0.5	<0.5	<0.5
	Antifreeze %	0.0	0.0	0.0	0.0	0.0
	Water %	0.0	0.0	0.0	0.0	0.0
	Insolubles %	0.2	<0.6	0.2	0.3	0.2
	TBN	4.9	>1.0			
	TAN					
	ISO Code					

* THIS COLUMN APPLIES ONLY TO THE CURRENT SAMPLE

This engine is still going strong! We don't limit our extended oil use recommendations to young cars. This sturdy little Ford Focus is still wearing nicely at 500K miles, and since the TBN is strong, metals look good, the filters are functioning well, and no significant contamination is present, we're suggesting the owner go on up to 10,000 miles for the next oil change. We see a fair number of high-mileage engines these days. They don't necessarily require special oil, or anything other than routine maintenance. If yours is getting up there and the doors haven't fallen off, send us a sample to see how the engine looks!