Mi on Oil	Mi on car	Sample date	Make up oil (qt)	Comments	Blackstone Comments
-	98014	4/22/2014	-	Initial sample, unknown oil	It doesn't look like the crushed oil filter caused any trouble in this sample. Metals are quite low and compare well to universal averages, which are based on about 7,500 miles on the oil. Given the lower than average metal readings, we suspect this oil run was a bit shorter than average, but that's okay. Sodium was present. It could show coolant, but at this point we're thinking more likely that it's residual additive from a previous oil run, and that's harmless. We'll just watch this next time. No fuel or moisture was found. Try about 5,000 miles for next time.
7000	105000	8/14/2014	0		Thanks for the notes. We're happy to hear the oil filter wasn't crushed. The low oil level shows the engine is using some oil, but it doesn't look like that translated to excess wear for your N52. Wear metals held relatively steady, so that's a good sign that your engine isn't having mechanical problems. We marked sodium last time because it's a marker for coolant, but it dropped nicely in this sample, so we're not worried about antifreeze in the oil. The viscosity was spot on for a 5W/30 and no fuel or water was found. Try 9,000 miles and watch your oil level.
12000	117839	2/24/2015	1		Glad to hear that the oil filter looked good again. You did have to add a little oil, but we wouldn't consider 1 quart after 12,000 miles to be a problem. Wear metals certainly look great, especially give the longer run. The only mark is silicon. Check the air filtration system just to be safe, but it's probably a harmless sealer or additive since wear is so low. The TBN is fine at 3.3, showing active additive left for an even longer oil run. Try 14,000 miles next.
14354	132193	11/30/2015	2		Thanks for the note on the oil leak. Adding oil is going to help dilute metals a little and that helps you run longer on the oil. Though honestly, 2 quarts of oil isn't too bad. We marked silicon last time, but we're not going to mark it here. Wear looks good and this oil does have a little silicon in its additive package, so that might be where it's from. The viscosity was a little thick, but heat probably isn't an issue or else insolubles would have read higher than this. The TBN's good at 3.4. Go ahead and try up to 15,500 or 16,000 miles next time. Looking good!
14000	146123	8/30/2016	2		This is another great set of results for the BMW. Adding fresh oil does indeed help with the oil package, and we're guessing that's why the TBN went up in the 11/30/15 sample even after a longer oil run. Neither the make-up oil, nor anything else in this data, looks troublesome. Wear metals are holding steady, and that shows us a happy and healthy engine here at the 146,123-mile mark. The oil was in fine shape as well. The viscosity was in spec, no contamination was found, and the TBN is good enough for a longer run, so feel free to try up to 16K miles next.
8400	197522	4/11/2019	1	filter only	You only changed the oil filter when you took this sample, but you could've left them in place. Insolubles are low at 0.3% so the oil filter wasn't used up. Of course, changing the oil filter sooner than needed isn't a problem so feel free to continue your maintenance strategy. Clearly, it's working well because this N52 is in great shape. Wear metals look good next to averages and past reports, showing a healthy engine with nearly 200,000 miles on the odometer. Going up to 15,000 miles on this oil should be just fine. Excellent report!