

# AMSOIL INTRODUCES 15,000-MILE Ea<sup>®</sup> OIL FILTERS

Group includes reintroduction of Ea Oil Filters for several popular Toyota applications.

Modern engine design trends have resulted in some vehicles that present multiple challenges to filtration engineers, especially those who are focused on delivering extended service life. In order to remain serviceable for an extended period, a filter must ensure adequate capacity while maintaining sufficient efficiency throughout the specified interval. This is often accomplished in part through the use of high-efficiency media and a slightly larger can to increase capacity.

## Barriers to Extended Service

Vehicle manufacturers are under tremendous pressure to provide fuel-efficient vehicles that produce fewer emissions than their predecessors. In fact, government mandates require automakers to meet specific fuel efficiency and emissions benchmarks or face steep monetary penalties. Vehicle original equipment manufacturers (OEMs) employ a variety of techniques to improve efficiency and reduce emissions, and nearly all of them negatively impact motor oil and oil filtration.

## Smaller Sumps, Smaller Filters, More Contaminants

To meet the demand for greater efficiency, OEMs are offering smaller, more aerodynamic cars. They have also introduced several new engine technologies designed to deliver greater power out of smaller, more fuel-efficient engines, which often rely on turbos or unique fuel injection systems that

can increase the amount of contaminants introduced into the oil. As these cars have become smaller, engine compartments have become too tight to use a filter of increased size. This, coupled with the trend toward smaller oil sumps in many of these applications, results in an extremely challenging task for oil filters.

## Additional Contaminant Generation

To meet the demand for reduced emissions, OEMs are applying a number of methods, including exhaust gas recirculation (EGR). EGR works by recycling a small amount of spent exhaust gas back into the combustion chamber. Some of the side-effects of EGR include less-efficient combustion, increased temperatures and increased acids; all of which add to the oil filter's workload.

## AMSOIL Overcomes Obstacles

For some of these applications extending the service life of the oil filter would seem impossible. Smaller sump sizes, some historically sludgy engines and smaller filter sizes, combined with increased contaminants in the engine oil, present a serious challenge to filtration engineers. AMSOIL has overcome all those obstacles with its introduction of 15,000-mile Ea Oil Filters (EA15K). There are 11 15,000-mile Ea Filters in all, including some that were previously available as 25,000-mile filters. While



AMSOIL has had no issues with these filters, the engine technologies used in the vehicles to which they apply are simply too demanding on an oil filter to continue offering 25,000-mile intervals. Also included in the group of 15,000-mile Ea Oil Filters are a number of filters (EA15K09, EA15K10, EA15K13) that were either discontinued or available only at OEM-recommended intervals due to the engine design issues outlined in AMSOIL Technical Service Bulletins FL-2009-05-01 and FL-2010-04-01.

## 15,000-Mile Ea Oil Filter Notes

Ea Oil Filters recommended for 15,000-mile service intervals are designated by the product code EA15K. These filters have been redesigned, but still feature the same premium nanofiber synthetic media as their 25,000-mile counterparts. In addition to some slight packaging modifications, AMSOIL has identified existing Ea Oil Filters moving from 25,000- to 15,000-mile intervals by placing stickers on the boxes. ■