



## Technical Service Bulletin

**Date:** 06/30/2009

**Product Description:** AMSOIL Ea009, Ea010 and Ea057 Oil Filters

**Subject:** Toyota Applications

### OBJECTIVE:

Inform customers of an issue regarding the oil sensor tripping in the following applications:

- All Toyota/Lexus Vehicles
- Pontiac Vibe Featuring the 1.8L or 2.4L Toyota-Built Engines.

### ISSUES:

A small number of customers with Toyota, Lexus and Pontiac vehicles with Toyota-built engines have reported that their vehicles' oil pressure light has illuminated prior to reaching the end of the AMSOIL-recommended 25,000-mile drain interval.

### TECHNICAL DISCUSSION:

To protect the engine, the OEM has engineered the oil pressure sensor to trigger the oil light when there is insufficient oil pressure to maintain an adequate level of protection. Each filter is equipped with a by-pass valve, so when the filter is at or close to capacity, the engine is continually supplied with adequate lubrication oil, although unfiltered. However, if the filter reaches maximum capacity, the level of restriction can become significant enough to trigger the oil pressure warning light. In extreme situations, oil starvation could occur.

Premature oil filter capacity can be attributed to a number of factors such as poor air filtration, a leaking air intake system or excessive contaminants being produced in the combustion process. As discussed in the AMSOIL Technical Service Bulletin *Using AMSOIL in Engines with Possible Sludge Issues*,<sup>1</sup> certain engines are prone to accumulate sludge, including some engines from Toyota/Lexus.

### RECOMMENDATION:

When used in conjunction with any Toyota/Lexus application, or with the Pontiac Vibe featuring the 1.8L or 2.4L engines built by Toyota, AMSOIL recommends changing Ea009 and Ea010 Filters per the OEM-recommended

change interval. AMSOIL no longer recommends the Ea057 Oil Filter for Toyota/Lexus applications, however, it is still recommended for other applicable vehicle makes and off-road equipment. Customers operating any of the above listed applications with an Ea009, Ea010 or Ea057 Filter in service beyond the OEM-recommended interval should change the oil filter at the earliest opportunity. If the oil light is triggered the filter should be changed immediately to avoid damage. AMSOIL also offers MANN Filters as an alternative to the Ea Filtration line and recommends the MANN ML1003 Oil Filter for Toyota/Lexus applications that previously called for an Ea057 Filter. MANN Oil Filters can be used for up to 7,500 miles when used in conjunction with AMSOIL synthetic motor oil.

### REFERENCES:

<sup>1</sup>AMSOIL Technical Service Bulletin *Using AMSOIL in Engines with Possible Sludge Issues*, MO-2005-09-29, 09/29/2005

**Submitted By:** RH

**Reviewed By:** DP

**Approved By:** AA

**Approval Date:** 06/30/09

**Distribution:** Internal \_\_\_\_\_

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