



Technical Service Bulletin

Date: 05/11/2009

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 Toyota-Built Engine.

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*,¹ 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 engine built by Toyota, AMSOIL recommends changing Ea009, Ea010 and Ea057 Filters per the OEM-recommended change interval. 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 WIX Filters as an alternative to the Ea line of filtration products. If a WIX Oil Filter is used, AMSOIL recommends changing it at OEM-recommended intervals.

REFERENCES:

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

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