



Service Bulletin

PRELIMINARY INFORMATION

Subject: 2006 First Design 2.4 LE5 Engine Oil Cooler Leak or Not Available

Models: 2006 Chevrolet Cobalt
2006 Chevrolet HHR
2006 Pontiac G6
2006 Pontiac Pursuit (Canada Only)
2006 Pontiac Solstice
2006 Saturn Ion
with 2.4L Engine (VIN B or P - RPO LE5)
and Engine Oil Cooler (1st Design 2.4L Engine)

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition/Concern

A technician may find a leaking engine oil cooler on one of the above vehicles. The leak could be engine oil or coolant.

The engine oil cooler 12594525 is no longer available through General Motors. As of this time, the oil cooler is not available in the aftermarket either.

Recommendation/Instructions

Originally, the vehicles above were equipped with an engine oil cooler at the start of 2006 model year production. However, validation tests demonstrated that an oil cooler is not required, even during extreme operating conditions. As a result, vehicles produced later in the model year are not equipped with an oil cooler and the engine block design changed. A block design change eliminated the external engine oil cooler passages and contained them within the engine block.

A technician can not block off the engine block oil cooler passages found on the first design LE5 engine or damage due to no engine oil flow will occur. The engine oil cooler also allows engine coolant to flow through it to reduce engine oil temperature.

At this time the technician can:

1. Find a local radiator repair shop to see if the oil cooler can be repaired.
2. Find a good used engine oil cooler.
3. Replace the engine assembly with a (new or used) second design 2.4 LE5 (no external engine oil cooler or passages)

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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