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LOW-SPEED PRE-IGNITION (LSPI) IS A  
POTENTIALLY CATASTROPHIC PROBLEM  
SURFACING IN TODAY'S ENGINES.

**AMSOIL**  
*The First in Synthetics*

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# CRACKED PISTONS. BROKEN RODS. LSPI SPELLS TROUBLE.

Most new engines feature gasoline direct-injection (GDI), often coupled with a turbocharger. These technologies heighten the possibility of a form of engine knock called low-speed pre-ignition (LSPI), which can destroy pistons and connecting rods. Properly formulated motor oil is critical for protecting engines from LSPI.

AMSOIL OE, XL and Signature Series Synthetic Motor Oils achieved **100 percent protection against LSPI\*** in the engine test required by GM's dexos1® Gen 2 specification—zero occurrences were recorded throughout five consecutive tests.



Example of piston damage due to an LSPI event observed during the testing of a competitor's motor oil. The red arrows indicate sections of the ring land that have broken away from the piston.



Learn more and buy at  
**[amsoil.com/lspi](https://amsoil.com/lspi)**



## OE Synthetic Motor Oil

- Achieved **100 percent protection** against LSPI\*
- **Controls** wear
- **Fights** sludge and deposits
- **API licensed** to meet the requirements commonly found in owner's manuals

\* Based on zero LSPI events in five consecutive tests of AMSOIL Signature Series, XL and OE 5W-30 Motor Oil in the LSPI engine test required by the GM dexos1 Gen 2 specification.

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