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## **PROTECTION (LSPI) IS A** POTENTIALLY CATASTROPHIC PROBLEM SURFACING IN TODAY'S ENGINES.

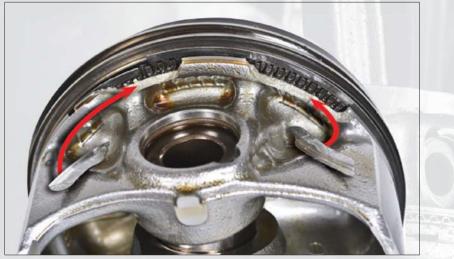


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## CRACKED PISTONS. BROKEN RODS. LSPI SPELLS TROUBLE.

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.

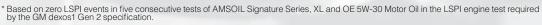
AMSOIL OE, XL and Signature Series Synthetic Motor Oils achieved **100 percent protection against LSPI**\* in the engine test required by GM's dexos1<sup>®</sup> Gen 2 specification– zero occurrences were recorded throughout five consecutive tests.



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.



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- **API licensed** to meet the requirements commonly found in owner's manuals