



orion[®]5000

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Independent Lab Tests Prove Orion 5000-EL is Ashless upon Combustion

OKEMOS, Mich. – [Orion[®] 5000-EL](#) engine and fuel lubricant burns ashless upon combustion according to lab tests conducted by [Paragon Laboratories](#) using ASTM standard benchmarks and protocols for medium and heavy duty diesel engines, and diesel fuel testing.

Paragon's results validate what diesel fuel dependent and EPA regulated organizations know from real world experience with Orion 5000-EL. You can literally see the difference in the exhaust after adding Orion 5000-EL to the fuel and crankcase. There's no black smoke.

Paragon Laboratories performed a series of [ASTM D482](#) tests to determine the ash content left by Orion 5000-EL after burning. The results of the ASTM D482 tests indicate that Orion 5000-EL is 99.9999% ashless upon combustion.

The ASTM D482 tests prove that Orion 5000-EL does not add particulate matter or ash to the environment.

Ash is an inhalable particulate matter made up of microscopic and liquid particles. Particulate matter is linked to major human health issues such as breathing and respiratory functions, cardiovascular disease, and premature death.

Heavy duty trucks are responsible for about one-third of NOx emissions and about one-quarter of particulate matter emissions. In heavy populated urban areas, emissions can be even greater. The Environmental Protection Agency (EPA) recognizes the effect particulate matter has on human health and has placed strict regulations on emissions along the west coast and eastern seaboard. Heavy fines are issued to any diesel fuel operator who does not meet the new standards.

Orion 5000-EL's synthetic ester molecules continuously clean and lubricate the fuel system and crankcase. The synthetic esters also allow the fuel to combust more completely reducing particulate matter including the reduction of sulfur ash and carbon.

Orion 5000-EL provides a pollution solution to meet strict EPA standards, especially along the west coast and eastern seaboard. It also provides companies who want to be environmentally sensitive a way to protect human health and the environment.

Paragon's ASTM D482 test results confirm the real world results of Orion customers. [Orion 5000-EL](#) reduces ash content upon combustion.

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About Orion Industrial, LLC

[Orion Industrial](#), LLC is a new North American manufacturer of synthetic lubricants for industrial uses (e.g., gear boxes,) and for use in internal combustion engines. Orion[®] 5000-EL is a synthetic fuel and engine lubricant formulated with ASET[™] technology for medium and heavy-duty diesel engines. To learn more about Orion Industrial, LLC visit www.orion.com or email info@orion5000.com.

About Paragon Laboratories, Inc

[Paragon Laboratories](#) is an independent, privately held laboratory specializing in testing services on fuels, oil, and water samples. Paragon performs over 225 analytical procedures that include ASTM protocols. The company employs a management system to meet the specifications of the ISO/IEC 17025:2005 standard.

About ASTM International

[ASTM International](#), formerly known as American Society for testing and materials, is one of the largest voluntary standards development organizations in the world known for their high technical quality and market relevancy. They are a trusted source for technical standards in materials, products, systems, and services.

About the Environmental Protection Agency

The [Environmental Protection Agency](#) sets rules and regulations to protect human health and the environment.

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