



orion[®]5000

Independent Lab Tests Prove Orion 5000-EL Increases Lubricity, Reducing Engine Scarring

OKEMOS, Mich. – [Orion[®] 5000-EL](#) engine and fuel lubricant increases lubricity and reduces engine scarring, 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 maintenance directors know from real world experience with the product. The increased lubricity in Orion 5000-EL extends maintenance intervals due to reduced engine wear from metal on metal scarring.

Paragon Laboratories performed a series of [ASTM D6079](#) tests to determine if ultra low sulfur diesel (ULSD) fuel with Orion 5000-EL would experience a lubricity improvement.

The results of the ASTM D6079 tests indicated an 8% increase in the lubricity of ULSD treated with Orion 5000-EL (10 gallons of ULSD treated with two ounces of Orion 5000-EL) compared to untreated ULSD. The untreated ULSD had 417 Microns while the treated ULSD had 384. Lower micron scores are an indication of less scarring and the presence of higher levels of lubrication.

Lubricity is the measure of the reduction in friction of a lubricant. This is determined by how much wear is caused to the surface of an object in a specific amount of time. Other factors such as temperature and surface size are also specified. The more wear and scarring, the less the lubricity.

Orion 5000-EL's synthetic molecules penetrate the surface of the engine, allowing the metal parts to glide smoothly and more efficiently, reducing the friction, temperature, and overall wear of the engine.

In cold weather, engine and fuel systems rely heavily on lubricity for proper operation. Insignificant lubrication levels lead to failure of wear related system components, including fuel injectors and fuel pumps. The switch to winter blend diesel during the fall and winter months lowers lubricity levels and increases engine wear.

Improving the lubricity of your diesel fuel will reduce engine scarring and extend maintenance intervals for medium and heavy duty diesel engines.

Paragon's ASTM D6079 lubricity test results confirm the real world results of Orion customers. [Orion 5000-EL](#) increases lubricity, reduces engine scarring, and extends maintenance intervals.

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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.orion5000.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.

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