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PRESS RELEASE



The Squeaky Wheel Gets the (Biobased) Oil!

It is often true that “the squeaky wheel gets the oil,” both literally and figuratively. For example, a door that starts to squeak is naturally much more likely to get lubricated than one that is moving quietly on its hinges. In the past, this maintenance activity had to be done with a petroleum-based lubricant. Fortunately, in answer to today’s emphasis on greater environmental responsibility, Cortec® has made it possible to give the squeaky wheel the *biobased* oil in the form of EcoLine® ELP all-purpose lubricant.



EcoLine® ELP is a high-performance biodegradable soy-based lubricant and penetrant for general purpose use. It is formulated from natural seed oils and select additives that offer lubricity and performance superior to conventional lubricants. Its excellent performance, biobased nature, and low environmental impact make EcoLine® ELP a highly desirable option for environmentally conscious industries or federal agencies and their contractors seeking to comply with mandatory federal purchasing guidelines of the USDA BioPreferred® Program.*



EcoLine[®] ELP contains 95% USDA certified biobased content, surpassing minimum biobased content requirements for products falling into the BioPreferred[®] category of multifunctional lubricants. When purchasing products in this category, federal agencies and their contractors are required to buy products with at least 88% percent biobased content, thus promoting the development and use of products made from renewable materials. In addition to being biobased, EcoLine[®] ELP is biodegradable, chlorine-free, and not toxic to plants—a much friendlier environmental prospect than petroleum-based products in case of the incidental leak or spill.**

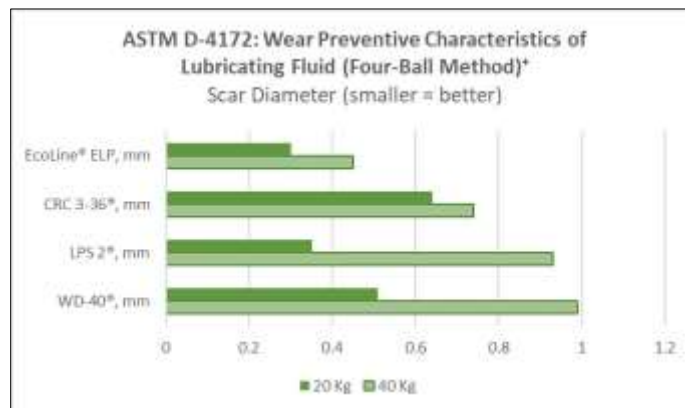
EcoLine[®] ELP vs. the Competition

EcoLine[®] ELP has shown good performance in laboratory testing compared with several name-brand petroleum-based lubricants.

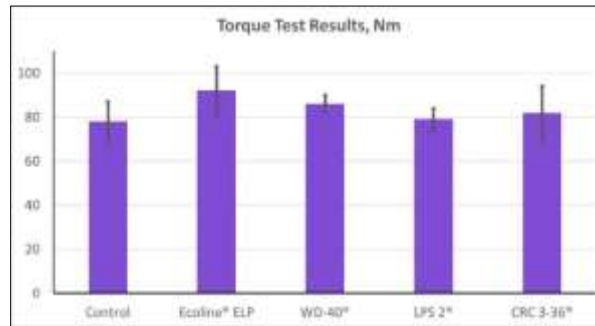
ASTM D-3233: Measurement of Extreme Pressure Properties of Fluid Lubricants (Falex Pin and Vee Block Methods)*				
Parameter	EcoLine [®] ELP	WD-40 [®]	CRC 3-36 [®]	LPS 2 [®] **
Final Load, lb	4500	1004	1190	498
Steel Pin	Fairly Smooth	Scarred	Scarred	Scarred
V Block	Smooth	Scarred	Fairly Scarred	Scarred
Coefficient of Friction	0.04	0.24	0.17	0.32
Tooth Count	1405	398	481	211

* Test failed. Unable to maintain load.

When tested according to the ASTM D-3233 Falex Pin and Vee Block Test, which demonstrates the extreme pressure properties of lubricants, EcoLine[®] ELP was able to hold up under a much heavier load than the other lubricants while avoiding scarring. Compared to WD-40[®] and CRC 3-36[®], it was able to withstand nearly four times the load; compared to LPS 2[®], it was able to withstand nearly 10 times the load. Coefficient of friction for EcoLine[®] ELP was also significantly lower than the competition—as low as one-eighth that of LPS 2[®].



When tested according to ASTM D-4172 Wear Preventive Characteristics of Lubricating Fluid (Four-Ball Method), EcoLine[®] ELP showed a much smaller scar diameter than the three other products.



EcoLine® ELP and the three other products were tested by applying them to rusty nuts and bolts and leaving them to sit for 15 minutes. Then they were unscrewed, and the torque was measured. EcoLine® ELP fell into close range with the performance of the competition. Also, although corrosion protection is not the main purpose of EcoLine® ELP, parts treated with it passed more than 3000 hours corrosion-free in 100% humidity at 50 °C (122 °F) (ASTM D-1748), comparable to the competition.

Get Ready to Give the Squeaky Wheel the Biobased Oil

There are many possible uses for EcoLine® ELP around the shop or plant. Chain and gear systems need frequent lubrication and are often out in the open at risk for outdoor leaks and spills where a biodegradable product would be preferred. Nuts and bolts that need to be easily removed for equipment access and fans, wheels, and hinges are other common moving parts where biobased EcoLine® ELP can be introduced. Contact Cortec® today if you are ready to give the squeaky wheel the biobased oil:

[https://www.cortecvci.com/contact-us/!](https://www.cortecvci.com/contact-us/)

To learn more about EcoLine® ELP, please visit:

https://cortecvci.com/Publications/PDS/EcoLine_ELP.pdf.

To see how EcoLine® ELP stands up to the competition, please visit:

https://www.cortecvci.com/whats_new/announcements/EcoLine_Sell_Sheet.pdf.



Keywords: Cortec, lubricant, lubrication, biobased, general maintenance products, soy based lubricants, squeaky hinges, moving parts, biodegradable, biobased alternatives, green chemistry

LPS 2[®] is a registered trademark of Illinois Tool Works. WD-40[®] is a registered trademark of WD-40 Company. CRC[®] and 3-36[®] are registered trademarks of CRC Industries, Inc.

**For more information, go to <https://www.biopreferred.gov>.*

***It is always important to ensure that use and disposal of all materials is in accordance with local guidelines.*

+ ASTM D-4172 and ASTM D-3233 tests performed at Engineered Lubricants, 11525 Rock Island Court, Maryland Heights, MO 63043. Tel: 314/872-9540.

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