



**The Ultimate Protection
Against Metal-To-Metal Wear**

Steel Shield Technologies, Inc.

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Technical Bulletin

The newer 0-20W, 0-40W Engine Oils

In this day and age of the "Green" movement and environmental culture we see a continued effort to replace our existing oils with oils that contain or consist of Polyolester synthetic chemistries. Recently it has come to our attention that the newer "zero" weight oils are growing in popularity primarily by the environmental faction of the industry and population. It is also common for these oils to be a fully synthetic polyolester fluid having the same characteristics as other esters and glycols. These oils have little to no compatibility with our products such as "Engine Shield" or "EPAW Shield" and should be avoided in blending or using together. Because of the extreme chemical differences between our Synthetic Hydrocarbon base stock (SHC) which is very "non-polar" and the Polyolester synthetic oil (POE), which is very "polar", will not blend properly nor will the POE allow our products to address the metallic surfaces in the manner of which they normally do. A small improvement in friction reduction may be seen but it is not by any means the results that are achieved by using a conventional oil or SHC oil. Our recommendation would be to switch to compatible oil if the client or user would prefer to use the Steel Shield products. Otherwise, it is not recommended to use the Steel Shield products in these or any Polyolester/Polyglycol oils as it has always been.

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