



# ***MAZDA ROTARY ENGINES AND SYNTHETICS***

One item that comes up from time to time is the use of synthetic engine oils in Mazda Rotary engines.

For some time Mazda has stated that it would not warrant the use of synthetic oils in their rotary engines due to issues with carbon-type deposits that form in the unique combustion environment these engines operate under. This has now been extended to partial synthetic products.

However, that statement only applies to “traditional” type synthetic oils that is, PAOs and Esters. This has been checked with Mazda in Japan.

Hence from a Penrite perspective we can recommend the following oils for use in rotary engines (viscosity grade dependent on vehicle type).

HPR 5  
HPR 10  
HPR 15  
HPR 30  
HPR Gas 10  
HPR Gas  
EDS 5  
EDS 10  
SIN 15  
SIN 25

Even though the latter two do contain some PAO, we have seen successful use in racing applications and have no hesitation therefore in recommending them.

SIN 0, SIN 5 and SIN 10 are **not** recommended for use.