

# THE EXTRA MILE

Engine Building and Power Techniques

BY SCOTT SEHR



Absolutely. The Most Motor For Your Money! *Guaranteed*

## SEALING THE DEAL

Sealing up today's hot rod engine can sometimes be confusing. There are so many options and product promises that a person could go crazy trying to find the correct product or procedure to correctly seal in the compression and control the oil and water.

Piston rings are relied upon to make power by controlling the combustion. Proper ring seal requires a straight and round cylinder. The cylinder hone finish is very critical but the ring composition is just as important. There are many different styles and combinations of piston rings and composition. To achieve the desired power output of your engine, the ring choice must be correct. Here at Sehr Performance, we have the experience and knowledge in this area so you will get all you can out of your hot rod engine or your daily driver.

Another important component of combustion sealing are the head gaskets. Just like with piston rings, there are many different compositions and styles to pick from and the correct choice is crucial. Buying well known, high quality piston rings and head gaskets can insure proper engine service but they have to be right for the job. There are low dollar rings and gaskets available but this is not an area to try to save a buck. Remember, you get what you pay for and if you choose a cheap part, failure is almost guaranteed. Valve guide sealing is also an important thing to consider. Too much oil getting into the intake charge causes detonation and oil consumption. However; there are seals on the market that seal the guides too well and starve the guides for lubrication. The proper seal for the correct application is imperative for long engine service. Rear main bearing seals are another tricky thing on some engines. There are many upgrades available that will improve sealing and

engine performance by reducing the seal drag coefficient. Using a quality front and rear main seal and paying attention to correct installation and alignment insures proper oil control.

Engine gaskets can be an easily overlooked component for successful oil sealing. The composition of the gaskets is important for the particular use. There are also many different silicon gasket sealers which are designed to make up for the small imperfections of the sealing surfaces. It is not uncommon to see too much silicon used which results in it squeezing out and getting into the engine and restricting or stopping oil or coolant flow.

Sealing up the engine can be tricky. By applying our knowledge and experience and going the "Extra Mile", we here at Sehr Performance help insure that you will be getting all the miles possible from your engine.



Quality Rear Main and Valve Seals