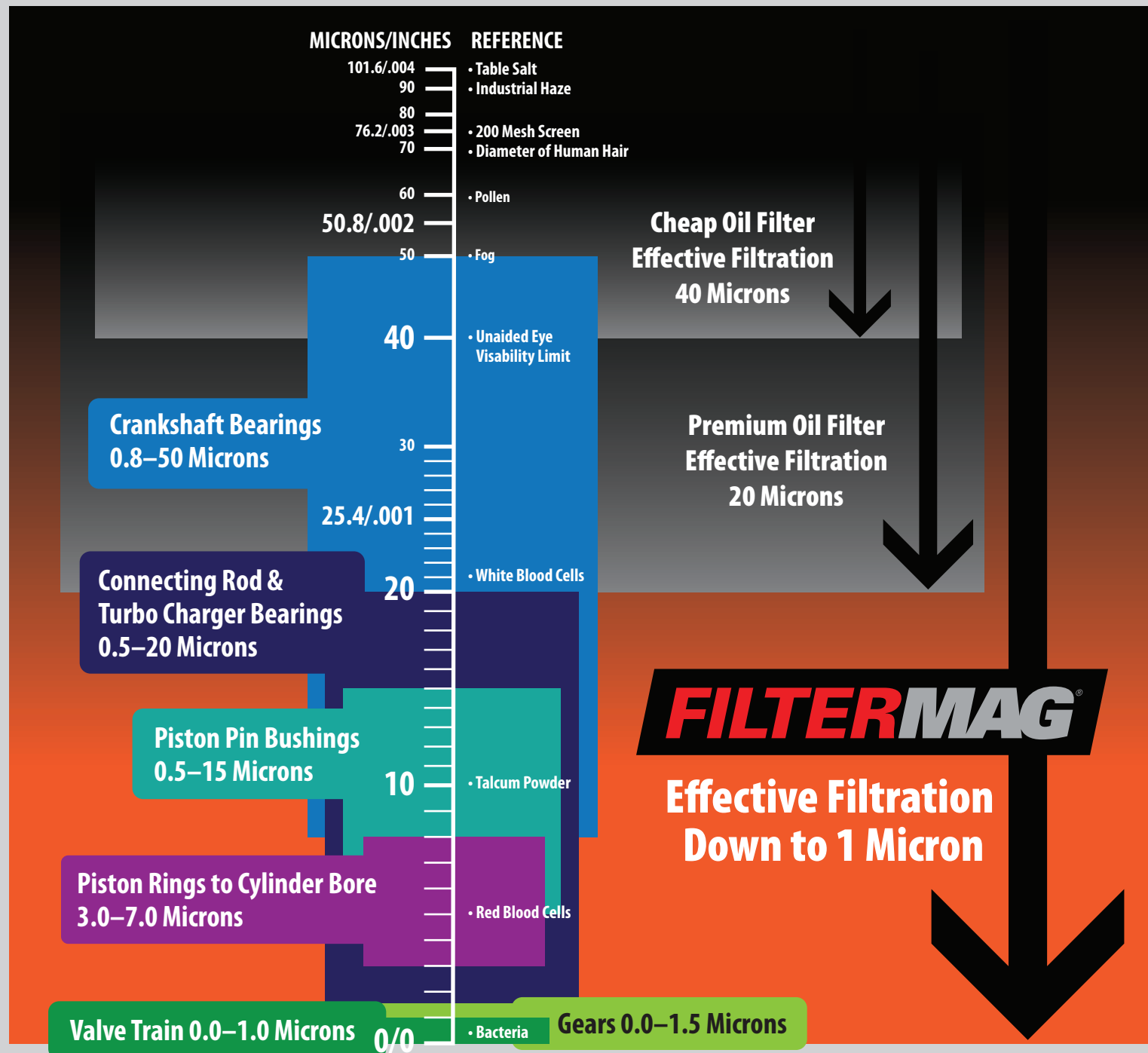
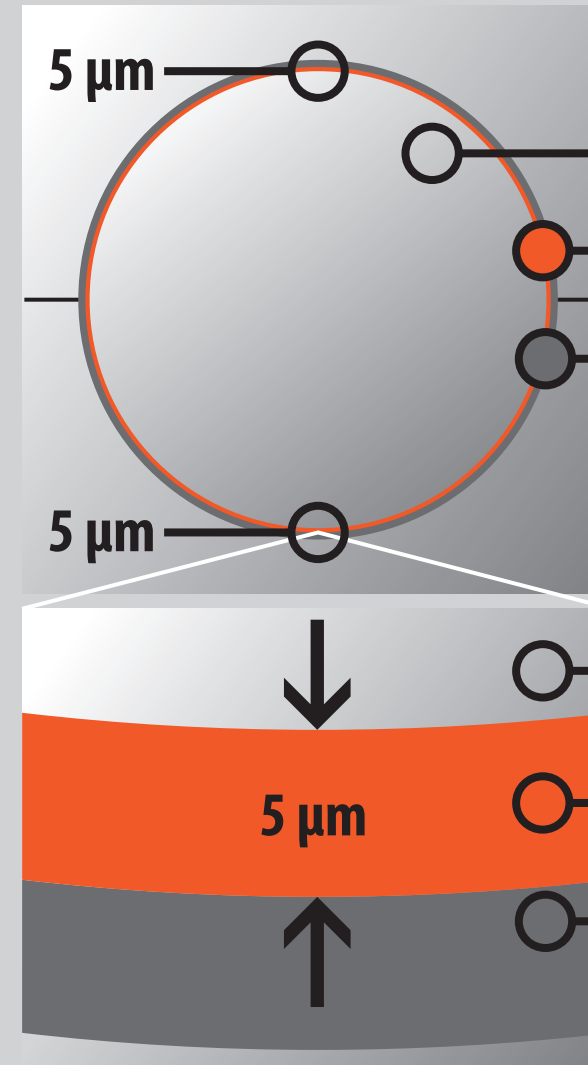


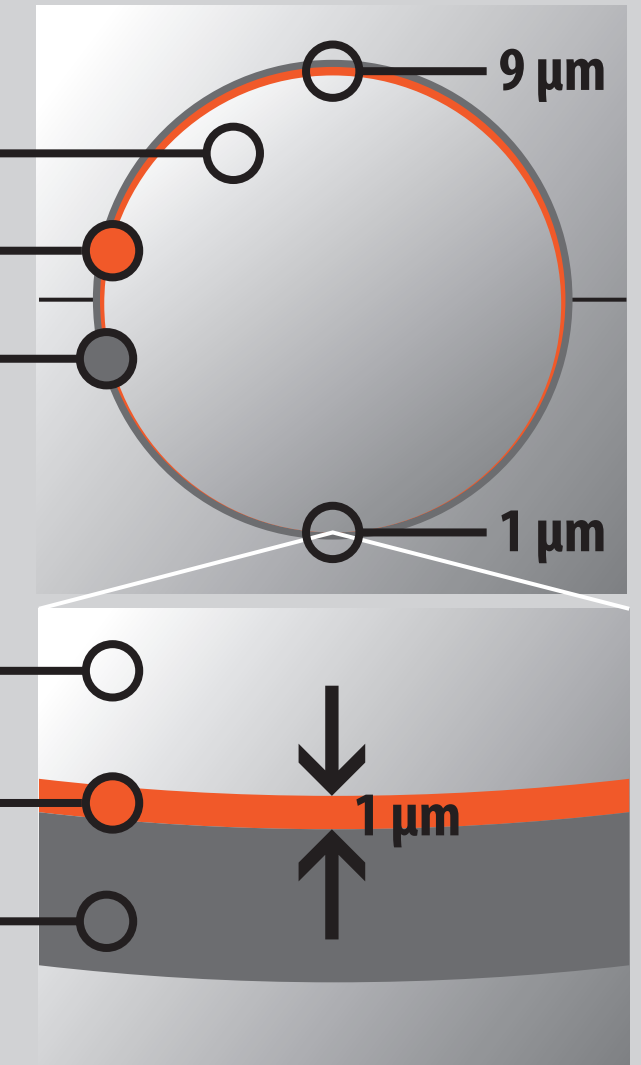
# Dynamic Engine Clearances and Engine Wear



## Machine Clearance



## Dynamic Clearance



**Particle-induced wear is greatest when the particle sizes are in the same range as the oil film thickness.**

The operating or dynamic clearance is not equal to the machine clearance, but is constantly changing. Clearance depends upon the load, speed, and lubricant viscosity. The lubricant film separates moving surfaces to prevent metal-to-metal contact.