



ARP Ultra-Torque™ Overview and Installation Preload Comparison

ARP Ultra-Torque

- ✦ ARP Ultra-Torque was developed to:
 - ✦ be more *consistent*
 - ✦ be more *repeatable*
 - ✦ be *metal-free*
- ✦ and achieve the target preload
ON THE FIRST TORQUE CYCLE

The Preload Problem

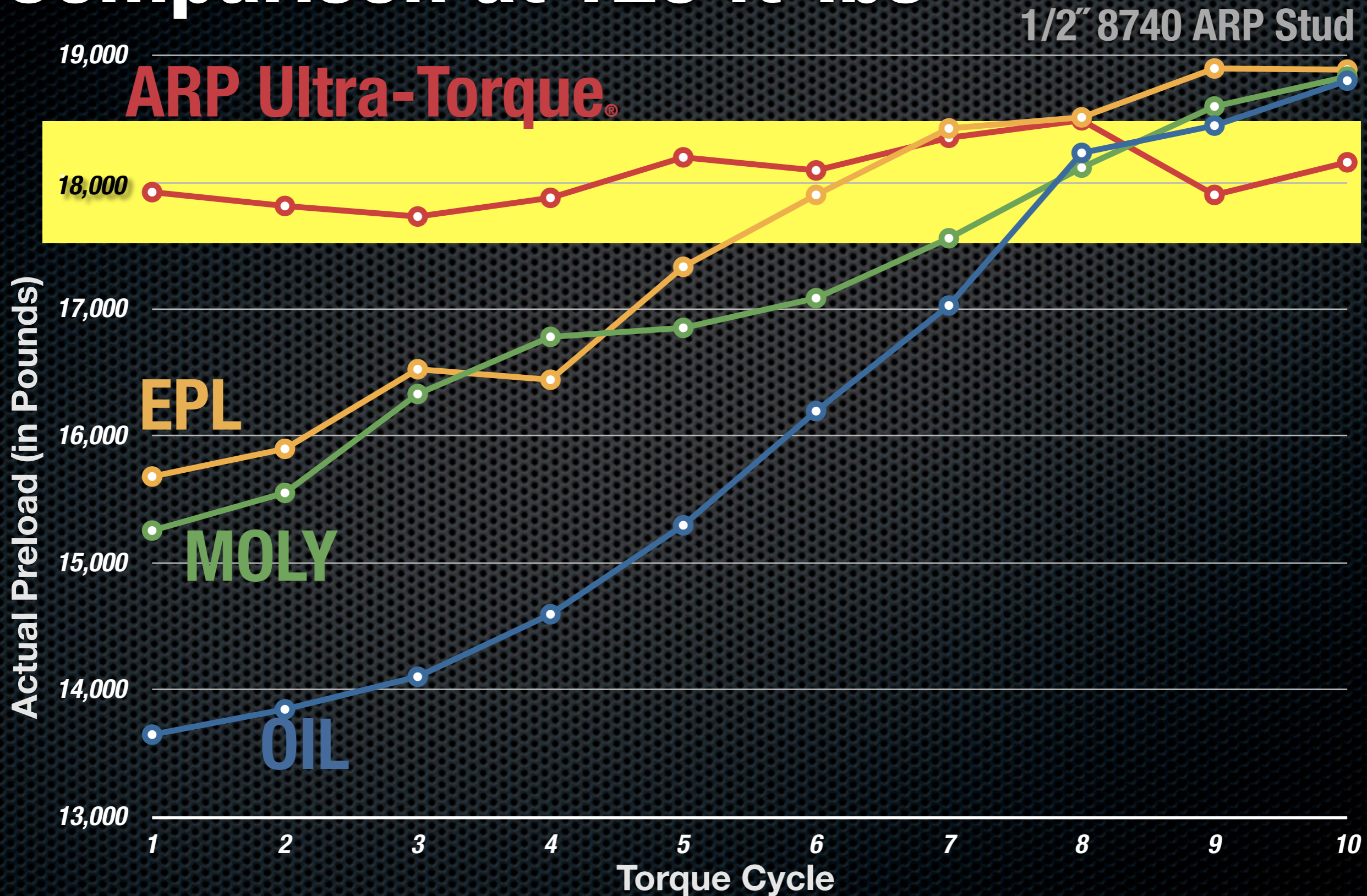


- A fastener must be installed to the correct preload in order to function correctly – ***so that it acts like a spring***
- The preload obtained from using a torque wrench is directly influenced by friction
- ***Currently, fasteners must be cycled 6-8 times*** in an attempt to stabilize friction that can cause incorrect preload values

What People Use Now

- ✦ *The three most popular fastener assembly lubricants are oil, moly-based lubes and EPL*
- ✦ Oil is considered the auto industry standard
- ✦ Moly assembly lubes were developed to further reduce friction and provide a common lube on which to base torque values
- ✦ EPL is an industrial lubricant that was not intended to be used as a fastener assembly lube

Installation Preload Scatter Comparison at 120 ft-lbs



Other Key Factors About ARP Ultra-Torque

- ✦ The **highest melting point** of all the lubes tested: 360°F
- ✦ **100% Metal-free** and no moly-disulfides
- ✦ Prevents seizing and galling on threads
- ✦ Better wear resistance