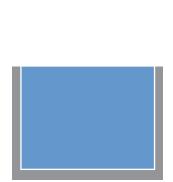
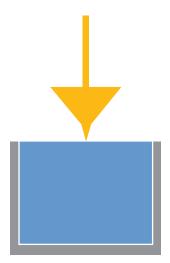
## **LUBRICANT TESTING 101 - PENETRATION**

The penetration values of P60 are rated using the NLGI grade chart from 000 to 6. These values determine the stiffness of the grease and how a grease will react over time to service and wear. The higher the penetration value, the softer the grease. The lower the penetration value, the stiffer the grease. A grease that is too soft may migrate away from the area that needs to be lubricated. A grease that is too stiff may not effectively migrate into those areas that need to be lubricated.



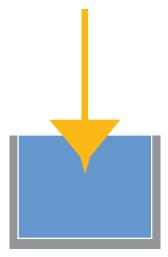
STEP 1

Place a sample in a worker cup and smooth the surface with a spatula.



STEP 2

Place the cup directly below the standard cone, making sure the cone tip just touches the grease surface.



STEP 3

Allow the cone to penetrate the grease for five seconds, then read the depth of penetration.

