

Animation Worksheet: Cooling The Piston

Name: _____ Date: _____

1. Oil squirters, also known as _____, are small nozzles that spray a fine mist of engine oil.
2. These nozzles spray oil onto the _____ of the piston to help regulate its temperature.
3. Oil squirters are usually located within the _____ and are positioned to hit the bottom of the piston during operation.
4. These components are often _____ and open only when oil pressure reaches a certain threshold.
5. Squirters typically activate during _____ or high-load engine conditions.
6. High-performance and _____ engines rely heavily on oil squirters to prevent excessive heat buildup.
7. By cooling the piston, these squirters reduce _____ stress on the component.
8. Oil squirters help prevent serious piston damage, such as _____, thermal cracking, or seizing.
9. Keeping the combustion chamber temperatures stable leads to better _____ and overall engine efficiency.
10. This system functions as a _____ cooling method, reducing the total heat load on the main cooling system.