

Animation Worksheet: VVT

Name: _____ **Date:** _____

1. The _____ (**OCV**) is an electrically controlled part that directs oil flow to the phaser.
2. The OCV is managed by the _____ (**ECM**) using a Pulse Width Modulated signal.
3. The ECM varies the oil pressure and direction based on engine _____, load, and temperature.
4. When there is a _____ percent duty cycle, the oil control valve is off and the phaser stays in its base position.
5. The cam phaser is a mechanical device mounted on the end of the _____.
6. The phaser uses _____ to either advance or retard the timing of the valves.
7. A cam phaser consists of an _____ (attached to the camshaft) and an _____ (attached to the timing sprocket).
8. Inside the phaser, there are internal _____ or chambers that respond to the movement of oil.
9. When oil fills the galleries on one side of the phaser, it causes the camshaft to _____ relative to the timing gear.
10. At a _____ percent duty cycle, the solenoid is partially open, allowing the phaser to hold its current position.