ACROSS
1. Ford uses an ________ ______ to prevent ice from forming inside the PCV valve and causing blockage.
5. A secondary air-injection system is most commonly called ___-_________ ________.
6. The proper operation of the PCV valve can be checked by placing a finger over the inlet hole in the valve when the engine is running and removing the finger rapidly, the valve should ____ ____.
7. The process of gases leaking past the rings is called ______, and the gases form crankcase vapors.
8. Turbocharged and many fuel-injected engines use an oil/vapor or oil/water _________ and a calibrated orifice instead of a PCV valve.
11. ____ systems were developed to ventilate the crankcase and recirculate the vapors to the engine’s induction system so that they can be burned in the cylinders.
12. When manifold ____ is high, the PCV valve restricts the airflow to maintain a balanced air-fuel ratio.
13. Another name for an SAI pump is a ____ ____.
15. The ________-_________ system provides the air necessary for the oxidizing process either at the exhaust manifold or inside the catalytic converter.

DOWN
2. A ________ contains a spring-type metallic disc or reed that closes under exhaust back pressure.
3. Another name for an SAI pump is a ________ ________.
4. The ________ is performed by simply removing the PCV valve and giving it a shake.
9. The ________ will fail if the PCM detects an opening between the crankcase and the PCV valve or between the PCV valve and the intake manifold.
10. An oilvapor or oilwater separator is used in some systems instead of a valve or ________ particularly with turbocharged and fuel injected engines.