

Name: _____

Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|--|---|-----------|
| 1. Compression Ignition | A. An exhaust aftertreatment device that oxidizes hydrocarbons (HC) and carbon monoxide (CO) in diesel exhaust. | 1. _____ |
| 2. Lift Pump | B. A heating element used in diesel engines to preheat the combustion chamber for easier starting in cold weather. | 2. _____ |
| 3. Injection Pump | C. An advanced active emissions control technology system that injects a liquid-reductant agent (Diesel Exhaust Fluid - DEF) through a special catalyst into the exhaust stream of a diesel engine. | 3. _____ |
| 4. Glow Plug | D. A system that reintroduces a portion of an engine's exhaust gases back into the engine cylinders to reduce NOx emissions. | 4. _____ |
| 5. Diesel Fuel Heater | E. A component that transfers fuel from the fuel tank to the injection pump or high-pressure common rail system. | 5. _____ |
| 6. Turbocharger | F. An exhaust aftertreatment device designed to remove particulate matter (soot) from diesel exhaust. | 6. _____ |
| 7. Exhaust Gas Recirculation (EGR) | G. A device used to prevent diesel fuel from gelling in cold temperatures. | 7. _____ |
| 8. Diesel Oxidation Catalyst (DOC) | H. The fundamental operating principle of a diesel engine, where air is compressed to a high temperature, igniting the fuel. | 8. _____ |
| 9. Diesel Exhaust Particulate Filter (DPF) | I. A forced induction device used on diesel engines to increase engine power by forcing more air into the cylinders. | 9. _____ |
| 10. Selective Catalytic Reduction (SCR) | J. A mechanical component in older diesel systems that delivers high-pressure fuel to the injectors. | 10. _____ |

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Chapter 16: Diesel Engine Parts, Operation, and Aftertreatment Matching

Matching Quiz

Answer Key

Answer Key:

1. H
2. E
3. J
4. B
5. G
6. I
7. D
8. A
9. F