

Internal Combustion Engine

1. How is the idle stop function disabled to allow the ICE to run at all times?

- a. Push a button on the dash on most HEVs
- b. follow a prescribed procedure
- c. Turn on the heater
- d. Open all doors

2. The viscosity of engine oil specified for use in a HEV is usually SAE _____.

- a. 0W-20
- b. 0W-30
- c. 5W-30
- d. 10W-40

3. If the torque displayed on a scan tool indicates that the motor/generator that is attached to the ICE is showing "positive torque." This means that the _____.

- a. ICE is being driven by the motor/generator (crank mode)
- b. ICE is powering the motor/generator (run mode)
- c. Motor generator is charging the HV battery
- d. Motor/generator is supplying electrical energy to the traction motor

4. The ICE does not start (nothing happens when the starting button or ignition key is engaged). What is the most likely cause?

- a. The ICE fuel tank is empty
- b. The auxiliary 12-volt battery is discharged or defective
- c. The electric fuel pump for the ICE is defective
- d. The HV battery pack is discharged below 50% SOC

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5. A scan tool is needed to _____.

- a. Check the SOC of the auxiliary 12-volt battery
- b. Check the oil level in the ICE
- c. Crank the engine at normal cranking speed to perform a compression test
- d. All of the above

6. The ICE cooling system uses _____.

- a. The same coolant as used in liquid cooled electronic cooling system
- b. Pure (100%) antifreeze to provide long-term corrosion resistance
- c. An ICE or electric-powered water pump
- d. Both a and c

Internal Combustion Engine Answer Key

1. b

2. a

3. a

4. b

5. c

6. a