

### 8. Cylinder compression Inspection

Test the cylinder compression.

*Is the compression as specified?*

- NO** – • Valve clearance too small  
• Valve stuck open  
• Worn cylinder and piston rings  
• Damaged cylinder head gasket  
• Improper valve timing

**YES** – GO TO STEP 9.

### 9. Fuel Pump Inspection

Inspect the fuel flow.

*Is the fuel pump unit normal?*

- NO** – Faulty fuel pump unit (page 6-33).

**YES** – GO TO STEP 10.

### 10. Programmed Fuel Injection System Inspection

Check the fuel injection system.

*Is the fuel injection system normal?*

- NO** – Faulty fuel injection system (page 6-54, 6-43).

**YES** – GO TO STEP 11.

### 11. Lubrication Inspection

Remove cylinder head cover and inspect lubrication.

*Is the valve train lubricated properly?*

- NO** – • Faulty oil pump  
• Faulty pressure regulator valve  
• Clogged oil strainer  
• Clogged oil passage

**YES** – GO TO STEP 12.

### 12. Over Heating Inspection

Check for engine over heating.

*Is the engine over heating?*

- YES** – • Coolant level too low  
• Fan motor not working  
• Thermostat stuck closed  
• Excessive carbon build-up in combustion chamber  
• Use of poor quality fuel  
• Wrong type of fuel  
• Clutch slipping

**NO** – GO TO STEP 13.

### 13. Engine Knocking Inspection

Accelerate or run at high speed.

*Is the engine knocking?*

- YES** – • Worn piston and cylinder  
• Wrong type of fuel  
• Excessive carbon build-up in combustion chamber  
• Ignition timing too advance (Faulty ECM)  
• Faulty ignition pulse generator  
• Faulty cam pulse generator

**NO** – • Engine does not knock