

Name _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What are five methods that could be used to clean engines or engine parts?

2) What does pH mean?

3) What are the steps involved during engine disassembly?

4) What precautions need to be followed when cleaning aluminum parts using mechanical methods?

5) When should the factory-installed lifting hooks be used?

Answer Key

Testname: LVDE1_SHORT7

1) Mechanical cleaning

Chemical cleaners

Spray and steam washing Thermal cleaning

Tank and vapor cleaning

Ultrasonic and vibratory cleaning

Page Ref: 86-88

2) pH value, measured on a scale from 1 to 14, indicates the amount of chemical activity in the cleaning solution. The term pH is from the French pouvoir hydrogène, meaning "hydrogen power." Pure water is neutral; on the pH scale, water is pH 7. Caustic materials have pH numbers from 8 through 14. The higher the number is, the stronger the caustic action will be. Acid materials have pH numbers from 1 through 6. The lower the number is, the stronger the acid action will be.

Page Ref: 87

3) Remove the turbocharger.

Remove the valve cover and the rocker arms, if equipped. Remove the cylinder head(s).

Remove the pistons.

Remove the rotating assembly.

Disassemble the cylinder head(s).

Page Ref: 83-84

4) Do not use steel wire brushes on aluminum parts! Steel is harder than aluminum and will remove some of the aluminum from the surface during cleaning. To help prevent the glass beads from sticking, be sure the parts being cleaned are free of grease and dirt, and completely dry.

Page Ref: 86

5) For the best results, use the factory installed lifting hooks that are attached to the engine. These hooks are used in the assembly plant to install the engine and are usually in the best location to remove the engine.

Page Ref: 83