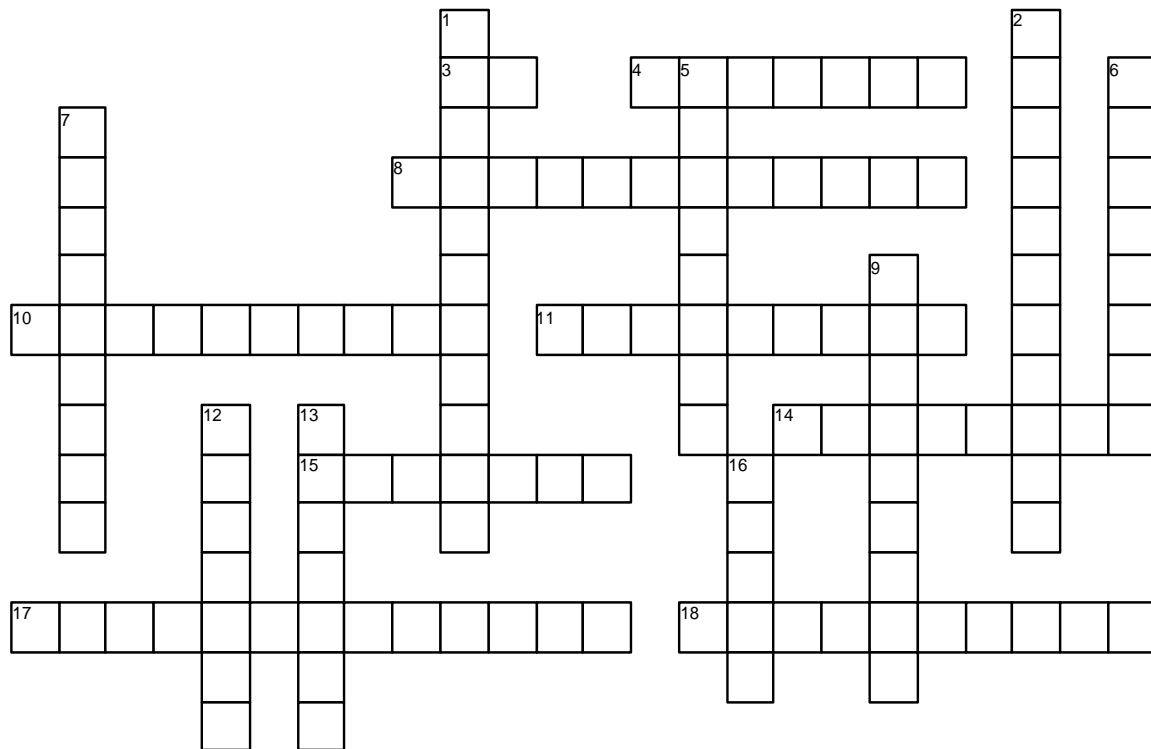


# Diesel Engine Disassembly, Cleaning and Crack Detection

## Chapter 7



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### ACROSS

- 3** \_\_\_\_\_ is a term from the French *pouvoir hydrogène*, meaning "hydrogen power."
- 4** The \_\_\_\_\_ most frequently used is a putty knife, or a plastic card.
- 8** The process of detecting cracks using a magnetic field is commonly referred to by the brand name, \_\_\_\_\_.
- 10** Media blasting with \_\_\_\_\_ is the cleaning method of choice for most shops.
- 11** \_\_\_\_\_ means High temperature.
- 14** An \_\_\_\_\_ pad or disc can be used on disassembled parts only.
- 15** \_\_\_\_\_ based solutions are water-based solution in which silicate- based solutions and water are mixed.
- 17** \_\_\_\_\_ are materials that have pH numbers from 1 through 6. The lower the number is, the stronger the acid action will be.
- 18** \_\_\_\_\_ cleaning is a method of cleaning where disassembled parts are placed in a tank of cleaning solution that is vibrated at ultrasonic speeds to loosen all the soil from the parts.

### DOWN

- 1** A \_\_\_\_\_ directs streams of liquid through numerous high-pressure nozzles to dislodge dirt and grime on an engine surface.
- 2** A parts washer is usually equipped with a safety cover held open by a low- temperature \_\_\_\_\_.
- 5** A \_\_\_\_\_ tank is used to remove grease and carbon.
- 6** Cylinder heads and blocks are often \_\_\_\_\_ tested with air and checked for leaks.
- 7** The \_\_\_\_\_ method of cleaning is best suited for small parts.
- 9** \_\_\_\_\_ cleaning is a cleaning method that uses microbes that are living organisms (single-celled bacteria) that literally "eat" the hydrocarbons (grease and oils) off of the parts being cleaned.
- 12** \_\_\_\_\_ cleaning uses heat to vaporize and change dirt, oil, and grease into a dry, powdery ash.
- 13** \_\_\_\_\_ materials are materials that have pH numbers from 8 through 14. The higher the number is, the stronger the caustic action will be.
- 16** \_\_\_\_\_ is a testing method, using fluorescent penetrant with a black light that shows up cracks on iron, steel, or aluminum parts.