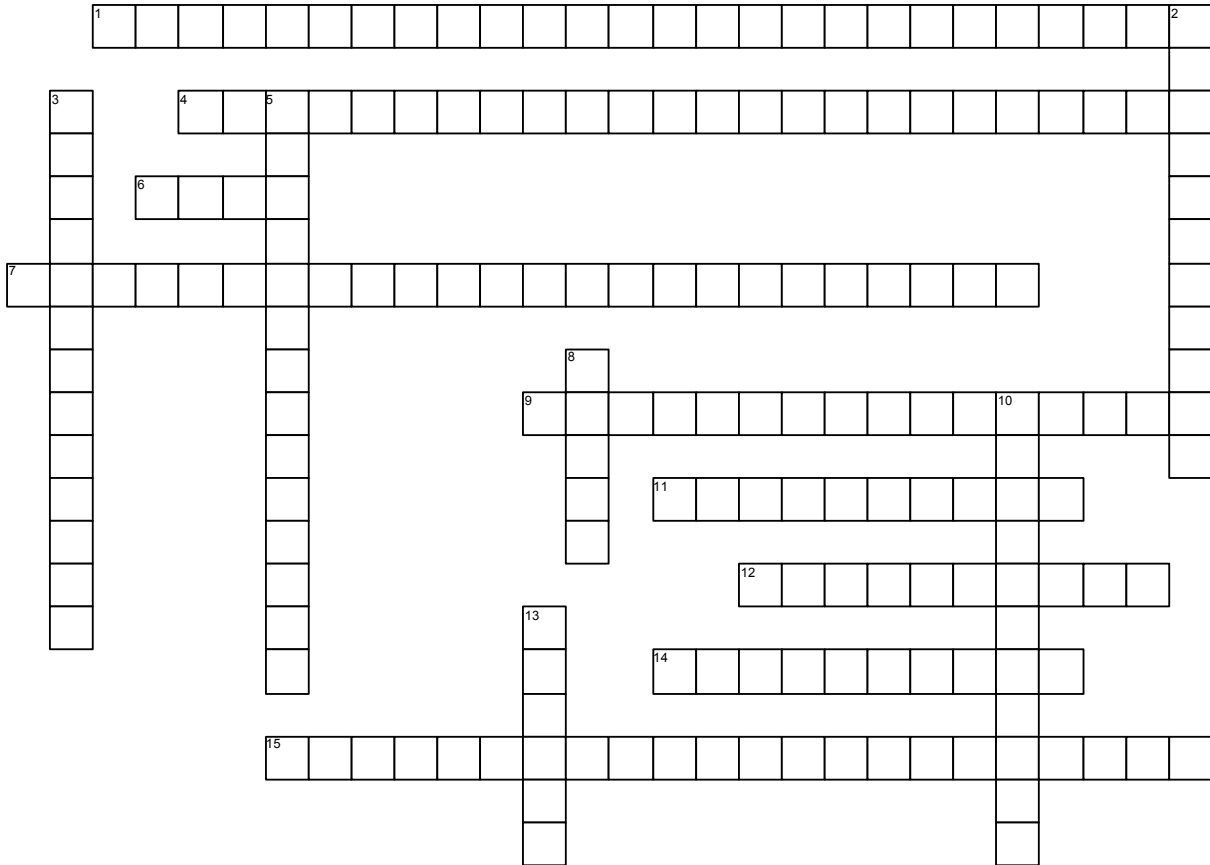


# Hydraulic System Parts and Operation

## Chapter 4



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### ACROSS

- 1 \_\_\_\_\_ is highly refined oil with a viscosity similar to SAE 20W-20 oil, and is specially designed for use in automatic transmissions.
- 4 Many automatic transmissions use a fixed-size \_\_\_\_\_.
- 6 Every hydraulic system requires a \_\_\_\_\_ to maintain fluid flow and to pressurize the fluid in the system.
- 7 \_\_\_\_\_ are also positive displacement in that they will pump a certain volume on each revolution, but the displacement, and therefore the fluid volume, can be changed.
- 9 \_\_\_\_\_ is another name for supply pressure.
- 11 The \_\_\_\_\_ in well-designed oil coolers continuously mixes the fluid.
- 12 \_\_\_\_\_ is a method of transmitting motion and/or force using a fluid.
- 14 A \_\_\_\_\_ is used to seal the space between two parts that are stationary relative to each other.
- 15 Transmission oil pumps are capable of creating an excessive amount of pressure quickly and therefore, every transmission uses a \_\_\_\_\_ to control hydraulic pressure.

### DOWN

- 2 A \_\_\_\_\_ traps particles as they try to pass through the filter material.
- 3 A \_\_\_\_\_ traps the foreign particles at the outer surface.
- 5 The pressure-regulated fluid is often called \_\_\_\_\_.
- 8 A spool valve can have two or more \_\_\_\_\_ that fit the valve bore tightly enough so that the valve can slide freely in the bore.
- 10 A \_\_\_\_\_ sliding in a round bore are used to control fluid flow.
- 13 A \_\_\_\_\_ is 1 millionth of a meter or 39 millionth of an inch.