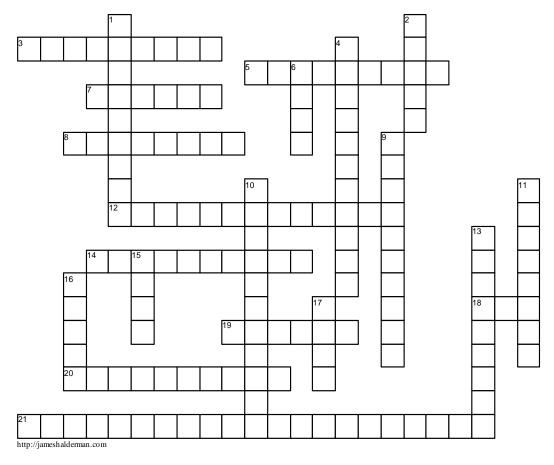
## Automatic Transmission Fluid, Filters, And Coolers

## Chapter 2



## **ACROSS**

- \_\_\_\_\_ inhibitors prevent corrosion of the nonferrous parts. \_\_\_\_\_ index improvers change the fluid viscosity with change in temperature so that fluid thickness and shift characteristics remain stable. friction modified ATF includes Dexron VII, Mercon V, ATF +4, and ATF WS. 8 \_\_\_\_\_-modified ATF types include Dexron. **12** A \_\_\_\_\_ traps the foreign particles at the outer surface. 14 The \_\_\_\_\_ in well-designed oil coolers continuously mixes the fluid. 18 \_\_\_ is added to make ATF red. 19 a \_\_\_\_\_ is 1 millionth of a meter or 39 millionths of an inch.
- clean and the valves free from sticking by keeping foreign items is suspension until they are removed by the filter.
- 21 \_\_\_\_\_ fluid is a highly refined oil with a viscosity similar to SAE 20W-20 oil and is specifically designed for use in automatic transmissions.

## **DOWN**

- Friction \_\_\_\_\_ change a fluids coefficient of friction.
   \_\_\_\_ deactiv ators form a protective film to inhibit oxidation of metal surfaces.
- **4** Type F ATF is an example of \_\_\_\_- modified ATF.
- 6 \_\_\_\_\_ swelling agents produce a slight swelling of the elastomers to compensate for any wear that occurs.
- 9 In most transmissions, the fluid

- returning from the torque converter and cooler \_\_\_\_\_\_ the transmission.

  10 A \_\_\_\_\_ traps particles as
- they try to pass through the filter material.

  11 \_\_\_\_\_ agents reduce friction
- and prevent scoring and seizure of metal parts against each other.13 \_\_\_\_\_ inhibitors reduce
- oxidation and decomposition of the fluid, which can produce varnish and sludge.
- 15 \_\_\_\_ inhibitors prevent rust from forming on the iron and steel parts.
- 16 Toy ota uses \_\_\_\_\_ standard ATF fluid. It is formulated to provide lower viscosity at normal operating temperatures.
- 17 \_\_\_\_ inhibitors prevent formation of air bubbles and foam in the fluid.



20 \_\_\_\_\_ keep the transmission