

Name _____

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

1) How does the ATF lubricate the automatic transmission?

2) What are the functions of ATF?

3) How does a filter trap particles?

4) Why do some vehicles use a transmission fluid heater and a cooler?

5) What are the three options that a technician or shop can use when selecting the ATF for a vehicle?

Answer Key

Testname: ATT7_SHORT2

1) In most transmissions, the fluid returning from the torque converter and cooler lubricates the transmission. The fluid from the cooler enters the lubrication passages at the case. It flows through holes drilled in the case to the main shaft bushings, where it passes into holes drilled in the input or output shaft.

Page Ref: 25

2) The purpose and function of ATF includes the following:

- Transfers power in torque converters
- Provides hydraulic pressure in clutches and band servos Lubricates bearings, bushings, and gears
- Transfers heat to cool transmission parts
- Provides the correct friction for clutch and band application
- Acts as the medium to control transmission shifting by traveling through passageways, acting on valves, and being directed by solenoids

Page Ref: 19

3) • Surface filter—a surface filter traps the foreign particles at the outer surface.

- Depth filter—a depth filter traps particles as they try to pass through the filter material.

Page Ref: 22-23

4) Excess temperatures cause the fluid to break down and form gum or varnish. Some transmissions use fluid heaters to improve cold operation.

Page Ref: 23

5) Option 1- Use the exact specified fluid as recommended by the vehicle manufacturer for the particular transmission/ transaxle.

Option 2- Use a multi-vehicle fluid, also called universal ATF, which is designed to meet the specifications of several different makes.

Option 3- Use a standard ATF with a “top treatment” additive to meet the friction characteristics of the OE fluid.

Page Ref: 20