



# MISSISSIPPI STATE RATING BUREAU

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## **INSPECTION, MAINTENANCE, AND TESTING OF IN-SERVICE AUTOMOTIVE FIRE APPARATUS**

All in-service automotive fire apparatus's should be properly tested, inspected, and serviced according to the manufacturer's and NFPA's specifications. For more detailed information, refer to NFPA Standard 1911. Listed below are the minimum guidelines recommended by the Mississippi State Rating Bureau (MSRB) concerning the lifespan of a fire apparatus for fire insurance rating purposes only.

Inspection, Maintenance, and Testing of In-Service Automotive Fire Apparatus (See NFPA 1911 latest edition for more details).

### **Annually**

1. A road test should be performed to check for improper transmission shifts, driveline and vehicle vibrations, drifting and pulling during acceleration or braking, abnormal noise, and resistance to steering recovery after a 90-degree turn.
2. A brake system test.
3. A low voltage electrical system test (battery test, alternator test, regulator test, and solenoid and relay test).
4. A performance test on fire pumps (priming system test and vacuum test).
5. All fluids (oil, transmission, power steering, brake, etc....) and filters shall be serviced in accordance with the manufacturer's severe service recommendation. If no severe service recommendation exist, the shortest interval recommended by the manufacturer, based on time or mileage, shall be followed.
6. Fluids in the pump shall be inspected and maintained at the level and condition specified by the pump manufacturer.

### **Seven (7) years**

1. Tires shall be replaced at least every seven (7) years or more frequently when the tread wear exceeds state or federal standards.

**Fifteen (15) years**

1. A three (3) hour certification test shall be performed consisting of the following:
  - A) At least two (2) hours of pumping at 100% of rated capacity at 150 psi net pump pressure.
  - B) At least thirty (30) minutes of pumping at 70% of rated capacity at 200 psi net pump pressure.
  - C) At least thirty (30) minutes of pumping at 50% of rated capacity at 250 psi net pump pressure.
  - D) An overload test of pump rated capacity at 165 psi net pump pressure for at least five (5) minutes.

This test shall be performed by qualified persons, a third party testing company, or the manufacturer.

All records shall be kept for the life of the vehicle and delivered with the vehicle upon transfer or change of ownership.

These guidelines will be available on the MSRB website. [www.msratingbureau.com](http://www.msratingbureau.com)

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