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## Regulating So-Called Jake Brakes (2010)

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*Municipal Technical Advisory Service*

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**May 26, 2010**

**REGULATING SO-CALLED "JAKE BRAKES"**

**Ron Darden, Municipal Management Consultant**

Tennessee cities may regulate, but not prohibit, the use of engine compression braking devices by ordinance provided that the ordinance conforms to Interstate Motor Carriers Noise Emission Standards as outlined in 49 C.F.R. 325 *et seq.*

T.C.A. § 55-7-117 states that truck tractors and semi-trailers, as defined in T.C.A. § 55-8-101, shall not use an engine compression braking device unless the device is equipped with an operational, approved muffler.

Federal testing procedures for measuring allowable decibel levels of truck tractor and semi-trailers require certified equipment, testing sites, testing procedures, and inspectors. The testing standards

are very complex, and most cities do not have the ability to administer such tests. Cities experiencing problems with noise pollution from engine compression devices are advised to use a visual muffler inspection procedure to reduce the noise level from engine compression braking systems.

MTAS recommends that cities desiring to enforce engine compression braking device standards require that truck tractors and semi-trailers comply with the approved muffler requirements of T.C.A. § 55-7-117. Cities may request appropriate highway notice signs from the Tennessee Department of Transportation. A sample ordinance follows.

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May 26, 2010  
**REGULATING SO-CALLED "JAKE BRAKES"**

**SAMPLE ORDINANCE**

Ordinance Number \_\_\_\_\_

**AN ORDINANCE REGULATING THE USE OF ENGINE COMPRESSION BRAKING DEVICES**

**Whereas**, Tennessee law provides for visual muffler inspection standards as a means to enforce noise pollution; now

**Therefore**, Be It Ordained by the Board of Mayor and Aldermen of the City of \_\_\_\_\_ as follows:

**Section 1.** All truck tractor and semi-trailers operating within the city of \_\_\_\_\_ shall conform to the visual exhaust system inspection requirements, 40 C.F.R. 202.22, of the Interstate Motor Carriers Noise Emission Standards.

**Section 2.** A motor vehicle does not conform to the visual exhaust system inspection requirements referenced in Section 1 of this ordinance if inspection of the exhaust system of the motor carrier vehicle discloses that the system:

- Has a defect that adversely affects sound reduction, such as exhaust gas leaks or alteration or deterioration of muffler elements. (Small traces of soot on flexible exhaust pipe sections shall not constitute a violation.);
- Is not equipped with either a muffler or other noise dissipative device, such as a turbocharger (supercharger driven by exhaust by gases); or
- Is equipped with a cut out, bypass, or similar device, unless such device is designed as an exhaust gas driven cargo unloading system.

**Section 3.** Violations of this ordinance shall subject the offender to a fine of \$50 per offense.

**Section 4.** This ordinance shall be supplemental to other noise control ordinances and regulations of the city, and shall be effective upon its final passage, the public welfare requiring it.

Passed 1<sup>st</sup> reading on \_\_\_\_\_, 2010

Passed 2<sup>nd</sup> reading on \_\_\_\_\_, 2010

\_\_\_\_\_  
Mayor

\_\_\_\_\_  
Attest: City Recorder

\_\_\_\_\_  
Approved As To Form: City Attorney

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