

**WAC 296-54-57325 Logging machines—Brakes.** (1) Brakes or dogs must be installed on all machine drums and maintained in effective working condition.

(2) Drum brakes must have an independent locking device that will hold the drum when the operator leaves the machine and the machine is not operating.

(3) Brakes must be protected from direct exposure to the elements or be designed or constructed to make them impervious to such exposure.

(4) At the start of each shift, logging machine operators must test all brakes before taking a load.

(5) Service brakes must be able to stop and hold each machine and its rated load capacity on the slopes over which it is being operated. Brakes must be effective whether or not the engine is running and regardless of the direction of travel.

(6) Self-propelled logging machines manufactured on or after July 1, 1985, must be equipped with braking systems as follows:

(a) A service braking system, which must be the primary means of stopping and holding the equipment;

(b) An emergency stopping system, which must be a secondary means of stopping the equipment in the event of any single failure of the service system; and

(c) A parking brake system, which must be used to continuously hold a stopped machine stationary within the limits of traction on any grade on which it is operated so as to allow the operator to leave the vehicle without the vehicle moving, and to prevent subsequent movement of the vehicle while unattended. The parking brake system must maintain this parking performance despite any contraction of brake parts, failure of the source of application, energy or leakage of any kind.

(7) The braking systems required in subsection (5) of this section must be installed, tested, and maintained according to the following Society of Automotive Engineers' (SAE) Recommended Practices:

(a) J1026-1982—Braking Performance—In Service Crawler Tractors and Crawler Loaders;

(b) J1473-1984—Braking Performance—Rubber-Tired Construction Machines;

(c) J1178-1980—Minimum Performance Criteria for Braking Systems for Rubber-Tired Skidders.

(8) Self-propelled logging machines manufactured before July 1, 1985, must have braking systems installed, tested and maintained in as effective a condition as originally intended by the manufacturer.

[Statutory Authority: RCW 49.17.010, [49.17].040 and [49.17].050. WSR 99-17-117, § 296-54-57325, filed 8/18/99, effective 12/1/99.]