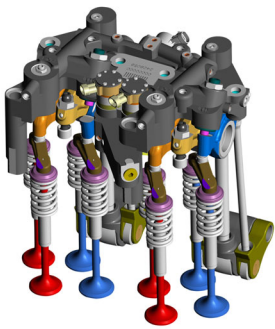


PURE POWER

Caterpillar® On-Highway Engines with ACERT™ Technology



Optimum braking capability

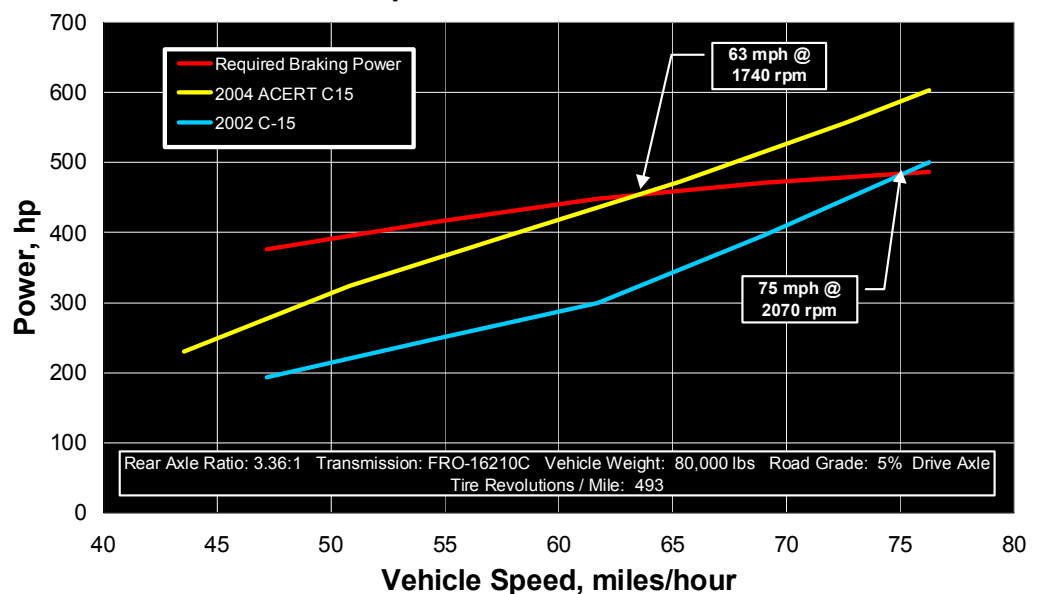


Cat® Compression Brake C11, C13, & C15 On-highway Engines

The Cat Brake is developed utilizing Caterpillar's expertise in fuel, hydraulics, and air systems to provide an optional integrated compression braking system. This compression brake provides lower operating cost, higher productivity, shorter trip times, and more braking power.

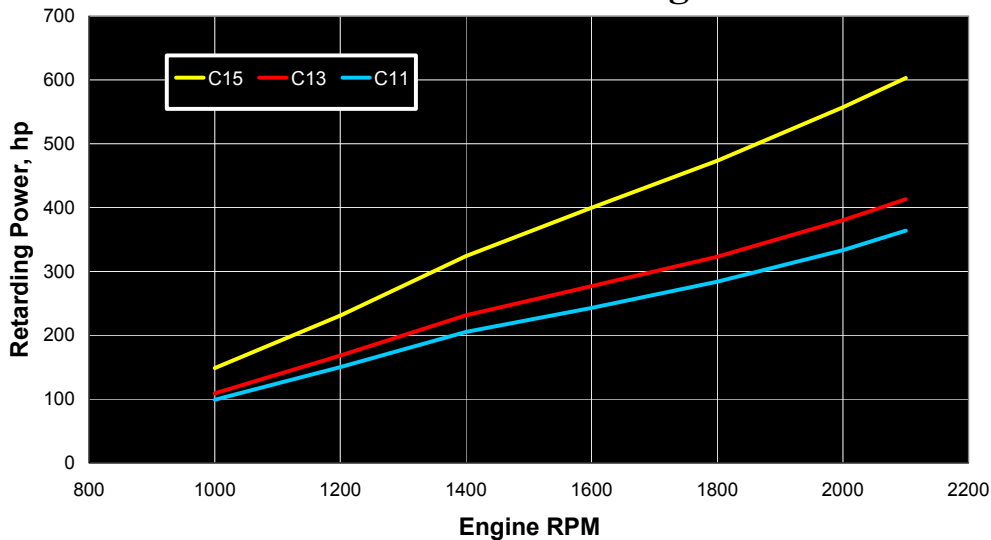
- Evolution through the building blocks of Cat's engine and fuel system expertise.
- Manufactured to the same world-class standards as our fuel systems.
- The Cat Brake components are built for long life.
- No need for "tune ups."
- Requires no maintenance except for periodic valve lash checks.

C15 Compression Brake Performance



- ◆ Offers up to 25% more braking power in the operating range, allowing you to maintain desired speed on grades.

Cat Brake Retarding HP



Retarding HP Required

Grade (%)	Speed (MPH)	Power Needed (HP)	
7	30	370	Downshift
6	35	350	
5	40	320	
4	60	320	No Downshift
3	60	200	
2	60	80	

Capable of maintaining road speed without using service brakes.

Electronic Features

The Electronic Control Module (ECM) controls the actuator valves through a data link. This automatically activates and deactivates the system as needed. With the Cat Brake, compression braking is available at all times, provided that the Cat Brake is turned on and activated; engine speed is greater than pre-set minimum (typically 800 rpm) and the fuel command sensory signal is less than or equal to zero.

The ECM can be programmed to operate the Cat Brake in three different modes: manual, coast, and latch. In manual mode, when the operator removes his foot from the accelerator, the brake system becomes active. In the coast mode, compression braking does not come on automatically until the operator applies the foot brake, and it disengages as soon as the operator releases the foot brake. In the latch mode, compression braking operates as in coast mode, except that it remains on when the operator releases the foot brake.

The Cat Brake is compatible with anti-lock brake system (ABS). The Cat Brake may be disabled by the ABS system if wheel slippage is detected.

The auto-retarder and cruise options allow the Cat Brake to come on while cruise control is active; to help prevent the vehicle from exceeding the cruise control set speed.

Benefits

The enhanced control provided by the Cat Brake translates to numerous benefits for the driver. The driver can slow vehicle speeds down on grades without using the service brake. The Cat Brake also helps the driver slow the vehicle down when adjusting to ever-changing traffic speeds without using the service brake.

Pure Power

The optional Caterpillar Compression Brake is just one more advantage for customers that use ACERT technology. It provides better value, bringing the customer lower operating cost, faster trip times, enhanced vehicle control, and improved driver retention.

