

### John Deere PowerTech Plus™ Engines' Best-In-Class Fuel Economy Gets Even Better in Applications Running at Partial Load

When John Deere Power Systems unveiled their PowerTech Plus™ diesel engines, they introduced a Tier 3/Stage III A solution that boasts best-in-class fuel economy as well as unprecedented power and performance. According to factory-observed, bare-engine data, PowerTech Plus 9.0L engines consume more than one gallon per hour less than two competitors at full load.



To achieve this level of improved fuel economy, John Deere employed three key technologies: cooled exhaust gas recirculation (EGR), the variable geometry turbocharger (VGT) and a state-of-the-art engine control unit (ECU).

These technologies were the key to meeting emissions requirements and still living up to the expectations of John Deere engine customers, particularly regarding fuel economy. With these same technologies, at 75 percent load, the John Deere PowerTech Plus 9.0L engine consumes 7.6 percent less fuel per hour than one competitor and 17.0 percent less fuel per hour than another competitor. This can result in using up to 2.5 gallons less per hour at 75 percent load.

Cooled EGR allows measured amounts of cooled exhaust gas to mix with incoming fresh air, lowering exhaust temperature and reducing oxides of nitrogen (NOx). VGT works hand-in-hand with EGR by tailoring the amount of recirculated exhaust gas that mixes with the fresh air. This is accomplished through the ECU, which changes the pitch of the VGT vanes in order to increase or decrease the measured amount of exhaust gas mixed with the incoming fresh air.

With fuel economy on everyone's mind, John Deere Power Systems customers can rest easy knowing they have chosen the engine with best-in-class fuel economy, whether they run at full load or partial load.



# Save a load of money.

Third party tests prove it. No matter how hard you work your equipment, you can save between 1 and 2.5 gallons of fuel every hour when you run with a John Deere PowerTech Plus™ 9.0L engine.



Try our interactive fuel calculator at [www.JohnDeere.com/fuelsavings27](http://www.JohnDeere.com/fuelsavings27) and find out how much you can save.



## JOHN DEERE

Nothing Runs Like A Deere™

