

**EVERY UPDATE.  
WHAT'S NEWS.**



**DIRECT LINKS TO  
CUMMINS WEB SITES**

**What's News** brings you the latest Cummins news — information on engine launches, new products and other press releases. With **What's News** in your in-box, you'll never miss out on the most recent stories!

For added convenience, you can follow these links directly to [cummins.com](http://cummins.com) and [everytime.cummins.com](http://everytime.cummins.com) (if your e-mail client allows).

**Recent Technology Development Achieves Significant Fuel Economy Benefits.**

Cummins has announced that it will add Selective Catalytic Reduction (SCR) aftertreatment to its heavy-duty products for 2010 to deliver the best fuel efficiency for its customers. Leveraging recent advancements in catalyst technology from MidRange engine development and Cummins Emission Solutions, the system will provide customers with significant fuel economy improvements, in addition to meeting near-zero emissions levels required by the Environmental Protection Agency's (EPA) 2010 regulations. See [2010 Heavy-Duty Engines Add SCR](#) for more.

**New 800-kW Rental Power Unit From Cummins Power Generation Offers Better Fuel Efficiency And A Smaller Footprint.**

A new 800-kW trailer-mounted diesel generator set from Cummins Power Generation provides a cleaner, quieter and compact system configured especially for customers seeking mobile power. This new 30-ft Rental Power unit features Cummins QSK23-G7 engine. The 800-kW mobile generator set offers larger fuel capacity and can run at full load 6 to 18 hours longer than other generator sets available in today's market. Additional information can be found at [New 800-kW Rental Power Unit](#).

**Cummins Fuel-Efficient QSK Engines Optimized.**

Cummins 19- to 60-liter



- Cummins Home
- Dodge Ram
- Recreational Vehicles
- Heavy-Duty Trucks
- Medium-Duty Trucks
- Power Generation
- Agriculture
- School Bus
- Urban Bus and Shuttle
- Construction Tier 3/Stage IIIA
- Fire & Emergency
- Marine
- Military
- Oil & Gas
- Mining
- Rail
- Filtration
- Cummins Westport
- Customer Assistance
- Media Resources

QSK Series engines incorporate a Cummins Modular Common Rail (MCR) fuel system that enables cleaner combustion with fuel efficiency optimized for high engine loads. These engines meet EPA Tier 2 emissions across a broad 760- to 2700-hp (567-2013 kW) power band.

Additional information is available at [Cummins QSK Series Engines For Mining](#).

### **Cummins Is The Clean Power Leader.**

Cummins announced at MINExpo that almost 3,000 QSK Series mining engines certified to EPA Tier 2 low-emissions regulations are in service with haul trucks, excavators, loaders, drill rigs and other equipment.

Cummins Tier 2 engine population is believed to exceed the combined total of Tier 2-compliant engines in service from all other engine manufacturers, positioning the company as the industry clean power leader. See [Clean Power Leader](#) for additional details.



### **Cummins Sets Standard For Largest Underground Haul Trucks.**

Cummins QSK19 sets the power standard for 60-ton payload vehicles with up to 760-hp (567 kW) output. Haul trucks powered by the 19-liter engine have demonstrated productivity increases of up to 20 percent, achieved by higher capacities and faster operating cycle times. Cummins QSK19 engine, installed in large trucks, and the 8.9-liter QSL in low-profile trucks have proved to be ideally suited for underground hauling applications by offering more responsive performance and rugged dependability. See the full article at [Cummins Sets Standard In Underground Mining](#).

**Do you know colleagues who would like to receive What's News?** Forward this e-mail to friends and ask them to [subscribe](#).

If you have trouble unsubscribing or need to get in contact with the owner of the list, please send an e-mail to: [whats.news@cummins.com](mailto:whats.news@cummins.com).

©2008 Cummins Inc., Direct Marketing, Mail Code 60610, 500

Jackson Street, Columbus, IN 47201 U.S.A.

---

Search: [Home](#) [Product Registration](#) [Service Locator](#) [PowerStore](#) [Contact Us](#) [www.cummins.com](#)

- Applications
- Cummins Technology
- In The News
- Customer Center
- Brochures
- Ratings

[Home](#) > [In The News](#) > [U.S. Press Releases](#) > Press Release**Cummins Announces Recent Technology Development Achieves Significant Fuel Economy Benefits**

COLUMBUS, Ind. (August 13, 2008) - Cummins Inc. (NYSE: CMI) announced today that it will add Selective Catalytic Reduction (SCR) aftertreatment to its Heavy-Duty products for 2010 to deliver the best fuel efficiency for its customers.

Cummins will combine recent advancements in catalyst technology with its unique engine systems. This will provide customers with significant fuel economy improvements, in addition to meeting the near-zero emissions levels required by the Environmental Protection Agency's (EPA) 2010 regulations. Cummins Emission Solutions, a leading provider of SCR systems, will supply integrated exhaust aftertreatment systems for Cummins Heavy-Duty and MidRange engines.

As previously announced, Cummins Heavy-Duty ISX engine family will incorporate the XPI fuel system, proven cooled Exhaust Gas Recirculation, the Cummins VG turbocharger, Cummins Particulate Filter and advanced electronic controls for the best performance, fuel economy and reliability.

"Cummins expertise in engine system integration means that we have the capability to make the engine systems and aftertreatment technologies work together seamlessly," said Steve Charlton, Vice President, Heavy-Duty Engineering. "The addition of the new SCR catalyst technology ensures that Cummins will deliver the best fuel economy in the industry and total operating cost benefits to our customers."

"This move demonstrates Cummins' ability to adapt to a changing environment by leveraging technology advancements from our MidRange engine development and Cummins Emission Solutions," said Ed Pence, Vice President and General Manager, Heavy-Duty Engine Business. "Our 2010 engine development is progressing on plan and customers can depend on Cummins to deliver these new products on-time, with the reliability, performance, and fuel economy that they have come to expect from us."

**About Cummins**

Cummins Inc., a global power leader, is a corporation of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems. Headquartered in Columbus, Indiana, (USA) Cummins serves

customers in approximately 190 countries and territories through a network of more than 500 company-owned and independent distributor locations and approximately 5,200 dealer locations. Cummins reported net income of \$739 million on sales of \$13.05 billion in 2007. Press releases can be found on the Web at [www.cummins.com](#).

[Top of Page](#)

© 2009 Cummins Inc., Box 3005, Columbus, IN 47202-3005 U.S.A.

[Terms of Use and Disclaimers](#)

[Skip navigation.](#)



<http://cumminspower.com/en/about/news/2008/news-2008-7/>

## 2008 News Releases

FOR IMMEDIATE RELEASE – 25 August, 2008

For further information, contact: Debby Wadsworth, 763-574-5395

### New 800 kW Rental Power unit from Cummins Power Generation offers better fuel efficiency and a smaller footprint

MINNEAPOLIS — A new 800 kW trailer-mounted diesel generator set from Cummins Power Generation provides a cleaner, quieter and compact system configured especially for customers seeking mobile power.



The new 800 kW Rental Power unit has a smaller footprint with a 30 foot container.

“Our new 800 kW Rental Power unit features the workhorse Cummins QSK23-G7 engine that has proven itself across a wide range of applications,” according to Larry Fetting, North America general manager, Cummins Power Generation Rental Business. “The 800 kW mobile generator set offers larger fuel capacity, it can run at full load 6 to 18 hours longer than other generator sets available in today’s market.”

“Fuel savings is on everyone’s mind,” Fetting added. “This unit provides a product to address loads between 500 kW to 800 kW in a very cost effective manner. Some customers will pay for the unit multiple times over a year in fuel savings.”

Other features of the new system include higher fuel storage safety with a 110% fluid containment system and improved emissions with the new 800 kW meeting Tier 2 emissions requirements. A robust cooling system also allows the unit to operate in temperatures up to 122 degrees F (50 degrees C).

The 800 kW Rental Power unit also has a smaller footprint at a mere 30 feet long. The smaller container offers greater flexibility in moving and locating units at work sites or office buildings where space is limited. The container is also insulated with sound attenuation to keep down noise levels.

As with all Rental Power units from Cummins Power Generation, the new 800 kW is a complete pre-integrated

power system designed to work in harmony. All parts of the system (generator set and controls) are designed and manufactured by Cummins Power Generation and factory-tested before shipping. “Our products are designed to work together and backed by Cummins Power Generation’s distributor network service and support, which gives our customers peace of mind,” Fetting said. “Service and support is available from our 24/7 distributor service network by calling 1-877-769-7669”.

Cummins Power Generation is an international supplier of Rental Power systems from 35 kW to 2 MW for prime, emergency, standby, peak shaving and distributed generation applications. Industries served include construction, data centers, entertainment, government, health care, hospitality, institutional, manufacturing, media, mining, oil and gas, retail, services, telecommunications, utilities and more.

Cummins Power Generation, a subsidiary of Cummins Inc. (NYSE: CMI), is a global leader dedicated to increasing the availability and reliability of electric power around the world. With more than 80 years’ experience, its global distributor network delivers innovative solutions for any power need – commercial, industrial, recreational, emergency and residential. Products include alternators, generator-drive engines and pre-integrated power systems, combining generator sets and power control and transfer technologies. Services range from system design, project management, financing and operation and maintenance contracts to development of turnkey power plants. For more information, contact Debby Wadsworth, Cummins Power Generation, 1400 73rd Ave. NE, Minneapolis, MN 55432. Phone: 763-574-5395; fax: 763-574-5811. Or visit the Web site at [www.cumminspower.com/energysavings](http://www.cumminspower.com/energysavings)

©2009 Cummins Power Generation Inc. All Rights Reserved.

Search: 
[Home](#)
[Product Registration](#)
[Service Locator](#)
[PowerStore](#)
[Contact Us](#)
[www.cummins.com](#)


- Applications
- Cummins Technology
- In The News
- Customer Center
- Brochures
- Ratings

[Home](#) > [In The News](#) > [U.S. Press Releases](#) > Press Release

### Cummins Fuel-Efficient QSK Engines Optimized

Modular Common Rail Fuel System Enables Cleaner, More Efficient Combustion At High Engine Loads

Las Vegas (September 22, 2008) - Cummins Inc. (NYSE: CMI) product lineup at the MINExpo show features the QSK19, QSK38, QSK50 and QSK60 engines to highlight class-leading, fuel-efficient power for mining haul trucks and excavators. Meeting EPA Tier 2 emissions across a broad 760 to 2700-hp (567-2013 kW) power band, the 19- to 60-liter QSK Series incorporates Cummins Modular Common Rail fuel system to enable cleaner combustion with fuel efficiency optimized for high engine loads.

Mining haul trucks, excavators and wheel loaders all have significantly different duty cycles related to application. Cummins expertise is applied to achieve the lowest overall fuel consumption by precisely matching engine power, torque and low emissions requirements to meet the most demanding load factors of the equipment.

“The multiple fuel injection flexibility provided by Cummins Modular Common Rail System driven by advanced electronic controls is a significant performance enabler to achieve the best fuel efficiency match between engine and equipment,” commented Jim Trueblood, Cummins Vice-President, High-Horsepower Engineering.

“Our application engineers are committed to developing a tailored engine calibration for each specific piece of equipment and application. This means the engine delivers the necessary power, torque and transient response with fuel efficiency optimized for high engine loads when the equipment is working hardest and consuming most of the daily bulk of fuel. We also factor in environmental influences such as operating altitude and ambient conditions to further fine tune the fuel efficiency of the calibration.

“As a result, Cummins Tier 2 engines run cleaner with low emissions while achieving the lowest overall fuel consumption over the course of a tough duty cycle. This is in contrast to some competitors who have focused their efforts on optimizing fuel consumption at idle or low-load operation,” added Trueblood.

While achieving fuel efficiency is an important factor in achieving lowest cost-per-ton for mining equipment, other factors such as engine reliability, durability and uptime availability make equally important contributions.

This is an area where Cummins scores highly, with QSK engines increasingly specified for excavators operating with the highest engine load factors of any mining equipment. This capability to achieve lowest-cost-per-ton in high duty cycle applications is reflected in Cummins powering around 85 percent of all mining excavators.

#### MCRS Performance With Safety

Cummins Modular Common Rail System (MCRS) is employed on all Tier 2-compliant engines and has a scalable, modular architecture sized to the individual engine platform. The fuel system brings performance benefits such as 50 percent improved idle stability and cold-start characteristics, together with faster load acceptance. Engine sociability is enhanced by the system eliminating unbalanced fueling across cylinders, offering much reduced vibration and up to 80 percent lower noise at rated power.

Cummins takes a proactive approach to ensure engine safety with a leak-prevention design approach. MCRS offers the advantage of a sealed fuel system with high-strength double-wall fuel pipes. In the unlikely event of a leak from the inner wall, the fuel would then be contained with the second safety wall.

A further MCRS safety advantage is that an accumulator is integral to each injector, enabling serial connection to the fuel pump. This avoids the need for a longer, more exposed fuel rail with inherently less durability.

Leak-resistant techniques also extend to oil lines with stainless steel braided hoses together with advanced materials used for gaskets. Coolant lines and filter connections are similarly designed for maximum integrity.

#### **Leading Life-To-Overhaul**


Cummins clean combustion technology not only delivers improved fuel efficiency but enhances life-to-overhaul by maintaining piston speed and cylinder pressure at lower levels than competitive engines. Specially strengthened Ferrous Cast Ductile (FCD) iron pistons are common to all Cummins QSK Tier 2 engines to further reinforce engine durability. The FCD piston allows even expansion and contraction during thermal cycles while cooling nozzles provide a high rate of oil flow rate to the piston.

While life-to-overhaul can be expressed in hours, Cummins prefers to focus on average design life-to-overhaul in terms of gallons of fuel consumed as a more accurate measure which better reflects high engine load operating factors. Depending upon duty cycle, the average design life-to-overhaul for the QSK60 exceeds 1,000,000 U.S. gallons (3,785,000 liters) of fuel consumed and for the QSK50 this is 875,000 gallons (3,312,000 liters). For the QSK38 the average is 625,000 gallons (2,366,000 liters) of fuel consumed and for the QSK19 this is 300,000 gallons (1,136,000 liters).

These impressive figures are believed to be unmatched in the mining industry by other comparable engines. Significantly, Cummins QSK engines are designed for ease of rebuilding at overhaul to enable multiple working lives and lower the total overall cost of ownership.

#### **About Cummins**

Cummins Inc., a global power leader, is a corporation of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems. Headquartered in Columbus, Indiana (USA), Cummins serves customers in approximately 190 countries and territories through a network of more than 500 company-owned and independent distributor locations and approximately 5,200 dealer locations. Cummins reported net income of \$739 million on sales of \$13.05 billion in 2007.

 [Top of Page](#)

© 2009 Cummins Inc., Box 3005, Columbus, IN 47202-3005 U.S.A.

[Terms of Use and Disclaimers](#)

Search: 
[Home](#)
[Product Registration](#)
[Service Locator](#)
[PowerStore](#)
[Contact Us](#)
[www.cummins.com](#)


- [Applications](#)
- [Cummins Technology](#)
- [In The News](#)
- [Customer Center](#)
  - [Brochures](#)
  - [Ratings](#)



[Home](#) > [In The News](#) > [U.S. Press Releases](#) > Press Release

### **3,000 Tier 2 Low-Emissions Mining Engines in Service Take Cummins to Clean Power Leader** Total Installed Power Approaches Four Million Horsepower

Las Vegas (September 22, 2008) - Cummins Inc. (NYSE: CMI) announced today at the MINExpo show that almost 3,000 QSK Series mining engines certified to EPA Tier 2 low-emissions regulations are in service with haul trucks, excavators, loaders, drill rigs and other equipment. Cummins Tier 2 engine population is believed to exceed the combined total of Tier 2-compliant engines in service from all other engine manufacturers, positioning the company as the industry clean power leader.

EPA Tier 2 regulations for engines above 751 hp (560 kW) took effect in January 2006 as the most stringent emissions standards in the world applicable for large surface mining equipment. Cummins Tier 2-certified QSK engine range extends from 19 to 78 liters across a broad 760- to 3500-hp (567-2610 kW) power band.

In terms of installed horsepower, the 3,000 Cummins Tier 2 engines represent a cumulative total approaching four million horsepower in mining equipment. The Tier 2-compliant engines reduce Particulate Matter emissions by over 60 percent compared to Tier 1, with Oxides of Nitrogen and Hydrocarbon emissions reduced by nearly 38 percent.

“Four years ago, back at the previous MINExpo in 2004, we took a lead role in the engine industry by revealing the first lineup of Tier 2-compliant engines well ahead of the EPA emissions effect date for engines above 751 hp,” commented Mark Levett, Cummins Vice President and General Manager, High-Horsepower Business.

“While other engine suppliers remain at an early point in their Tier 2 introduction, Cummins has moved ahead to establish proven engine performance at the mine site. Equipment manufacturers and mine operators have made Cummins their Tier 2 engine of choice with almost 3,000 units now in service.

“Our Tier 2 success demonstrates that Cummins is uniquely positioned to provide the mining industry with the best value in engine power and is committed to doing so. As the largest independent manufacturer of diesel engines, we have invested in the right technologies – combustion research, fuel systems, air handling, filtration and electronic controls – which means we can deliver the most dependable solution on time with the lowest cost of ownership,” added Levett.

Cummins achieved Tier 2 emissions levels by optimizing the in-cylinder combustion recipe to provide cleaner, more efficient combustion. Performance-enhancing technology such as Cummins Modular Common Rail fuel system was also utilized on the latest generation of QSK19, QSK38, QSK50 and QSK60 engines. As a result, the Tier 2 engines provide more rapid load acceptance, improved idle stability, better cold-starting characteristics and are significantly quieter in operation. The benefits of clean power also result in virtually no visible smoke at rated power output and very low levels of oil consumption.

Tier 2 engine design upgrades to pistons, valve train and air-handling systems have maintained Cummins industry-leading reputation for durability established by their Tier 1 predecessors. As an example, the 2,700 hp (2013 kW) QSK60 Tier 2-compliant engine is capable of achieving an impressive life-to-overhaul exceeding one million gallons (3,785,000 liters) of fuel consumed, depending on duty cycle.

#### **About Cummins**

Cummins Inc., a global power leader, is a corporation of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems. Headquartered in Columbus, Indiana (USA), Cummins serves customers in approximately 190 countries and territories through a network of more than 500 company-owned and independent distributor locations and approximately 5,200 dealer locations. Cummins reported net income of \$739 million on sales of \$13.05 billion in 2007.

[Top of Page](#)

© 2009 Cummins Inc., Box 3005, Columbus, IN 47202-3005 U.S.A.

[Terms of Use and Disclaimers](#)

Search: 
[Home](#)
[Product Registration](#)
[Service Locator](#)
[PowerStore](#)
[Contact Us](#)
[www.cummins.com](#)


- Applications
- Cummins Technology
- In The News
- Customer Center
- Brochures
- Ratings

[Home](#) > [In The News](#) > [U.S. Press Releases](#) > Press Release

### **Cummins QSK19 Sets the Power Standard for Largest Underground Haul Trucks** 760-hp Capability Drives 60-Ton Payload Class To Higher Productivity

Las Vegas (September 22, 2008) - Cummins Inc. (NYSE: CMI) sets the power standard for the largest underground mining haul trucks with the QSK19 engine installed in 60-ton payload vehicles with up to 760 hp (567 kW) output. Haul trucks powered by the 19-liter engine have demonstrated productivity increases of up to 20 percent achieved by higher capacities and faster operating cycle times.

“Cummins long-standing success in powering surface mining haul trucks has now been followed with equally successful engine installations in the new generation of underground mining haul trucks,” said Manfred Duering, General Manager of Cummins Underground Mining Business.

“Demand for ore and mined materials continues to grow at a rapid pace, and underground haul truck manufacturers have responded by introducing vehicles with higher payloads and faster speeds for deeper production areas accessed by ramps with steeper gradients. Cummins QSK19 engine, installed in large trucks, and the 8.9-liter QSL in low-profile trucks have proved ideally suited for underground haulage by offering more responsive performance and rugged dependability,” added Duering.

In addition to haul trucks, Cummins engines are achieving impressive productivity results in many other types of mobile underground equipment such as load-haul-dumper (LHD) vehicles, transport carriers and drill rigs as equipment manufacturers continue to upgrade their machines with cleaner, more efficient power solutions.

Cummins broad power range capability for underground mining is also reflected with the recent installation of the 30-hp (22 kW) rated A1700 engine in a rubber-tracked mini-loader with MSHA certification. Utilized for coal belt clean-up work, the remote controlled mini-loader is one of the smallest diesel-powered machines operating underground. The compact low-emissions A1700 engine has proved highly reliable while operating under arduous working conditions and maximizing productivity.

While engine performance has been an important factor behind Cummins growing presence in underground mining equipment, just as significant is Cummins ability to support and service equipment at mine sites anywhere in the world. With a global market potential, underground equipment manufacturers require the confidence provided by Cummins that engines will be fully supported wherever they are located.

#### **Powering Haul Trucks And LHDs**

Cummins QSK19 is one of the most powerful diesel engines installed in underground mining equipment, powering haul trucks in the 50- to 60-metric ton payload class with ratings from 650 to 760 hp (485-567 kW). The six-cylinder 19-liter engine provides fast engine response with smooth power delivery to make easier work of long, steep access ramps. In terms of uptime availability and life-to-overhaul, the QSK19 has achieved impressive results while working under the most severe duty cycles.

Some of the latest haul trucks and load-haul-dump (LHD) vehicles designed for large underground mining operations are utilizing Cummins 11-liter QSM, which comes with an outstanding reputation for heavy-duty performance and durability. Extending from 290 to 400 hp (216-298 kW), the six-cylinder QSM offers deep reserves of torque to enable faster operation for trucks with up to 30-ton capacity. For LHD applications, the QSM enables exceptional breakout force and over 14-metric ton capacity.

The six-cylinder 8.9-liter QSL provides high power density with space-efficient packaging in the popular 20-ton

capacity underground haul truck class and LHD vehicles in the 10-ton capacity range. A high-pressure common rail fuel system and advanced electronic controls work together to provide clean combustion with optimized fuel efficiency across the rpm range, contributing to lower cost-per-ton operations.

The QSL engine features a peak power boost capability which responds to exceptionally heavy work demands. For example, the QSL rated 350 hp (261 kW) at 2100 rpm comes with a useful peak power capability of 370 hp (276 kW) at a lower 1900 rpm.

Cummins six-cylinder 6.7-liter and four-cylinder 4.5-liter QSB engines offer a perfect power match for smaller-sized low-profile haul trucks and LHDs operating in confined work areas. Both the QSB6.7 and QSB4.5 offer compact installation envelopes with the flexibility of a broad power range band from 110 to 275 hp (82-205 kW). While economical to operate, the QSB brings the premium performance of a High Pressure Common Rail fuel system and full-authority electronics usually associated with larger Cummins engines.

#### **MSHA-Approved Power**

For coal and metal/non-metal applications, the Cummins-powered Dodge Ram remains the only pickup truck produced in North America with an MSHA (Mine Safety and Health Administration) approved engine. By offering a major reduction in emissions, the specially rated 175 hp (130 kW) Cummins Turbo Diesel enables mine operators to significantly reduce their annual expenditure on mine ventilation.

Featured on the Cummins display at MINExpo is the specially packaged 6CTAA8.3 engine which has established a growing reputation for efficient and highly dependable power in coal mine transportation locomotives, carriers and similar equipment. The MSHA-approved 6CTAA8.3 is available with ratings from 185 to 285 hp (138-213 kW).

#### **About Cummins**

Cummins Inc., a global power leader, is a corporation of complementary business units that design, manufacture, distribute and service engines and related technologies, including fuel systems, controls, air handling, filtration, emission solutions and electrical power generation systems. Headquartered in Columbus, Indiana (USA), Cummins serves customers in approximately 190 countries and territories through a network of more than 500 company-owned and independent distributor locations and approximately 5,200 dealer locations. Cummins reported net income of \$739 million on sales of \$13.05 billion in 2007.