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**"Fuel Duel" Confirms Five Percent Higher Fuel Efficiency For Tier 4 Engines.**



Cummins announced the results of a "Fuel Duel" test comparing identical machines powered by a Tier 4 Interim QSB6.7 engine versus a comparable Tier 3 engine. See ["Fuel Duel" Confirms Five Percent Higher Fuel Efficiency](#) for more information.

**Daimler Trucks North America Introduces Natural Gas-Powered Vehicle With Cummins Westport ISL G Engine.**



Daimler Trucks North America will offer the Cummins Westport ISL G Natural Gas (NG) engine in the Freightliner® Business Class M2® 112 truck. A total of six LNG and CNG tractor/truck configurations will be offered, starting with an LNG tractor for port and regional haul applications. The Cummins Westport ISL G meets 2010 EPA emissions today, reduces greenhouse gas emissions and offers top-level performance and efficiency. See [ISL G For Freightliner Business Class Truck](#).

**DEF Product Line Expanded.**

Cummins Filtration is now offering convenient smaller-sized packaging options as well as dispensing equipment for Diesel



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Exhaust Fluid (DEF). In addition to bulk, 330-gallon plastic totes, 275-gallon disposable totes and 55-gallon plastic drums, Fleetguard® DEF is now also available in 1-gallon, 2.5-gallon and 5-gallon containers. The dispensing equipment offered includes air and electric pumps for drums and totes. Details are available at [DEF Product Line Expanded](#).

### **New 1500 kW Rental Power Unit Offers High Fuel Capacity In A Complete Climate-Tolerant Package.**



Cummins Power

Generation's new 1500

kW Rental Power unit provides versatility in a complete pre-integrated system with increased fuel capacity and better fuel economy than competitive models. This unit features the workhorse Cummins QSK50 diesel engine with a Cummins Generator Technologies Stamford alternator. The engine, generator and monitoring controls are all designed and built by Cummins Power Generation to work together seamlessly. See [New 1500 kW Rental Power Unit](#) for more information.

### **300ps Cummins ISBe For United Kingdom Buses.**

Cummins class-leading ISBe 6-cylinder engine now comes with additional power of up to 300ps for use in city bus applications. Available with 1100 N•m of torque, it meets Euro V and EEV emissions levels without the need for additional particulate filtration. The increased displacement allows improved performance with higher power and torque. See [300ps ISBe For UK Buses](#).

### **Clean C Gas Plus Engines Deliver Low Emissions In Turkey.**

Cummins Westport natural gas engines will power nearly 200 new 12-meter city buses built by Turkish manufacturer BMC. They will serve the Kayseri Municipality, a large industrialized city in Central Anatolia, Turkey, with a population close to 900,000 people. These C Gas Plus engines will be rated at 280 hp and will meet Euro 4 emissions standards. Additional details are at [Clean C Gas Plus Engines Power Turkish Buses](#).

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## "FUEL DUEL" CONFIRMS FIVE PERCENT HIGHER FUEL EFFICIENCY FOR CUMMINS TIER 4 Operating Costs Reduced And Productivity Improved For Tier 4 Installations

COLUMBUS, Ind. (June 25, 2009) -

Cummins Inc. (NYSE: CMI) today announced the result of a "Fuel Duel" test confirming a five percent fuel efficiency improvement for a Tier 4 Interim QSB6.7 installation compared to an identical machine powered by a Tier 3 engine. The fuel consumption evaluation was conducted under site conditions across a series of duty cycles representative of typical working operations.

The Fuel Duel was undertaken to fully validate previous test results from other Cummins concept installations that have also demonstrated impressive reductions in fuel consumption while meeting EPA Tier 4 Interim and EU Stage IIIB low-emissions standards taking effect in 2011.

Identical front-end loaders in the 190- to 200-horsepower (142 to 149 kW) class were used as host machines for the Fuel Duel, offering the high engine load factors typical of hardworking equipment. The various duty cycle tests included short and long cycle times with minimal idle time to represent real-world real operation. The machines undertook a sequence of pile breakout and bucket discharge testing, together with repeated sprints and braking.

The 6.7-liter QSB engines competing back-to-back in the Fuel Duel were specified with the same power output, peak torque and rated speed. The higher fuel efficiency of the Tier 4 Interim engine was achieved without compromising machine performance. In fact, the Tier 4 Interim QSB6.7-powered machine completed the Fuel Duel tests within shorter cycle times due to a faster engine response to load demands.

"The results from the Fuel Duel speak for themselves. OEMs can expect lower cost of operation and enhanced productivity from their Cummins-powered equipment while achieving Tier 4 Interim low-emissions standards," said Hugh Foden, Cummins Executive Director Off-Highway Business.

"We have an inherent technology advantage to meet the 2011 emissions standards because we design and manufacture the complete engine system from air-in to exhaust-out aftertreatment. This means we can leverage our integration advantage to formulate a cleaner and more fuel-efficient combustion process," added Foden.

### Fuel Duel Test Measurement

The five percent higher fuel efficiency achieved by the Tier 4 Interim QSB6.7 installation factored in active regeneration of the self-cleaning Cummins Particulate Filter exhaust aftertreatment. This was barely measurable in terms of fuel consumption, as the filter proved capable of self-cleaning in passive regeneration mode for long periods of the equipment operating time.

Both the Tier 3 and Tier 4 Interim-powered machines were operated by the same driver back-to-back with the same bucket size and tire pressure to eliminate any possible variables that could influence the results. Fuel consumption was measured using a special secondary fuel tank mounted on each of the front-end loaders and precisely weighed after each test to record the exact amount of fuel consumed.

The five percent fuel savings represented an overall average measured over different duty cycle tests, with each test performed repeatedly to further validate the results.

#### **Virtual Fuel Consumption Analysis**

Cummins has introduced a virtual fuel consumption service available on a consultancy basis for OEMs to predict Tier 4 Interim fuel savings for specific duty cycles and machine types. The analysis work is undertaken by Cummins Virtual Installation Center, recently established to help support OEMs with Tier 4 integration work. Opportunities for fuel savings can be identified for the machine before work commences on the prototype installation.

"We take the fuel map and duty cycle data of the current Tier 3 machine as a starting point. This is used as a basis to build up a predicted fuel consumption across the power curve of the intended Tier 4 Interim-powered machine," explained Keith Nolting, Cummins Director Industrial Applications.

"The fuel consumption analysis can be conducted quickly and enables performance optimization work to begin well ahead of the prototype installation -- saving the OEM both engineering time and resources. By working with the OEM to understand a specific application duty cycle, we can fine tune various machine and engine features at the virtual design stage to realize the best possible fuel efficiency," added Nolting.

#### **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 \$755 million on sales of \$14.3 billion in 2008. Press releases can be found on the Web at [cummins.com](http://cummins.com) or [everytime.cummins.com](http://everytime.cummins.com).

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## Daimler Trucks North America Introduces Natural Gas Powered Vehicle with Cummins Westport Engine

June 11th, 2009

VANCOUVER, BC – Cummins Westport Inc. (CWI), a leading provider of high-performance, alternative fuel engines for the global market, announced today that Daimler Trucks North America will offer the ISL G Natural Gas (NG) engine in the Freightliner Business Class® M2 112 truck in a total of six LNG and CNG tractor/truck configurations. The rollout begins today with an LNG tractor for port and regional haul applications. The Cummins Westport ISL G, an 8.9 litre stoichiometric cooled-exhaust gas recirculation (EGR) engine, meets 2010 EPA emissions today, reduces greenhouse gas emissions and offers top-level performance and efficiency.

Later in 2009, a CNG version of the tractor is expected to be offered, followed by CNG single axle tractor, 4X2 and 6X2 truck, and vocational configurations. It is expected that the entire natural gas offering will be available by the end of 2010.

“Introducing a factory designed and engineered Business Class® M2 112 with natural gas adds to Daimler Trucks’ “Shaping Future Transportation” initiative while we continue to provide our customers a hard-working truck with added economic and environmental benefits,” noted Melissa Claussen, Director of Marketing, Freightliner Trucks.

Roe East, President of Cummins Westport, added, “This is a great opportunity for CWI to partner with Freightliner, one of North America’s market-leading truck manufacturers. By launching the Cummins Westport ISL G in the M2 112 tractor, Freightliner will be able to provide customers with clean, economic natural gas power for a wide range of applications. By the end of 2010, Freightliner Trucks expects to have a complete CWI-powered lineup with configuration options for over 90% of truck applications in North America.

### About the Cummins Westport ISL G

The ISL G was the first heavy duty engine to meet EPA 2010 emission standards of 0.2 g/bhp-hr (grams per brake horsepower hour) NOx (nitrogen oxide) and 0.01 g/bhp-hr PM (particulate matter) today. The ISL G leverages Cummins’ proven cooled Exhaust Gas Recirculation (EGR) with stoichiometric combustion allowing for the use of a three way catalyst, which is maintenance free. No further aftertreatment is required. The ISL G, with ratings from 250 to 320 horsepower, also delivers improved fuel economy and over 30% higher low-speed torque compared with previous CWI “Plus” engines. CWI has already logged significant orders for the ISL G from Sterling Truck (a Daimler brand) as well as refuse truck fleets and transit properties. More information about the ISL G can be found at: [www.cumminswestport.com/products/islg.php](http://www.cumminswestport.com/products/islg.php)

### About Freightliner Trucks

Freightliner Trucks is a division of Daimler Trucks North America, the largest manufacturer of heavy-duty vehicles in North America and a leading manufacturer of medium-duty vehicles. Daimler Trucks North America designs, builds and markets a wide range of Class 3-8 vehicles including long-haul highway tractors, heavy-duty construction and vocational trucks, mid-range trucks for distribution and service, school and transit buses, fire and emergency service apparatus and chassis for step vans, school and shuttle buses and motor homes.

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**About Cummins Westport Inc.**

Cummins Westport Inc. manufactures and sells the world's widest range of low-emissions alternative fuel engines for commercial transportation applications such as trucks and buses. CWI is a joint venture of Cummins Inc. (NYSE:CMI), 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, and Westport Innovations Inc. (NASDAQ:WPRT / TSX:WPT), a leading developer of technologies that allow engines to operate on clean-burning fuels such as natural gas, hydrogen, and hydrogen-enriched natural gas (HCNG).

[www.cumminswestport.com](http://www.cumminswestport.com)

*Note: This document contains forward-looking statements about Cummins Westport's business, operations, technology development or to the environment in which it operates, which are based on Cummins Westport's estimates, forecasts and projections. These statements are not guarantees of future performance and involve known and unknown risks and uncertainties that are difficult to predict, or are beyond Cummins Westport's control and may cause actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activities, performance or achievements expressed in or implied by these forward looking statements. These risks include risks relating to the timing and availability of Cummins Westport products, and other risk factors discussed in Westport Innovations Inc. most recent Annual Information Form and other filings with securities regulators. Consequently, readers should not place any undue reliance on such forward-looking statements. In addition, these forward-looking statements relate to the date on which they are made. Cummins Westport disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.*

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## Extended Range of API Certified DEF Products now Available from Cummins Filtration

Cummins Filtration Contact:

Holly Duarte  
Cummins Filtration  
615-366-9815:  
[holly.duarte@cummins.com](mailto:holly.duarte@cummins.com)

*For Immediate Release*  
*June 22, 2009*

NASHVILLE, TENN—Cummins Filtration (NYSE:CMI) announced today that they have expanded their product line to include convenient, smaller-sized packaging options as well as dispensing equipment for Diesel Exhaust Fluid (DEF).

Previously offered in bulk, 330 gallon plastic totes, 275 gallon disposable totes and 55 gallon plastic drums, Fleetguard DEF is now also available in 1 gallon, 2.5 gallon and 5 gallon containers. The dispensing equipment offered includes air and electric pumps for both drums and totes.

In addition to expanding their DEF product line, Cummins Filtration recently gained API certification for its DEF product. API certification is a voluntary program established by the American Petroleum Institute (API) to certify and monitor DEF throughout the supply chain from manufacturing to the end customer to ensure that product meets ISO specifications.

“Cummins has always been committed to providing high quality products our customers can depend on,” said KC Hall, Director of Diesel Exhaust Fluid Business Development. “Meeting the ISO specifications and adhering to the API certification process helps to reassure our customers that they have chosen a reliable DEF source with the consistent high quality controls required to optimize and protect their equipment investment.”

The extended range of Fleetguard DEF products is available to the broad Cummins Filtration network, which includes over 20,000 locations with nearly 8,000 retailers in North America. Unique amongst other DEF providers, this network will have the option to order DEF along with their filter and coolant products they are receiving from Cummins Filtration today.

“When one considers the supplier administration and transportation costs of alternative DEF supply, we believe our freight-included DEF offering will be an attractive alternative for many of our delivery locations,” said Hall. “We can also offer dedicated, streamlined DEF shipments as desired by our customers and as the DEF consumption demand grows in the future.”

Since 2003 Cummins Filtration has supplied DEF, the urea based solution necessary for SCR system

functionality. More information about DEF including brochures, Q&A, training modules, and more can be found on [cumminsfiltration.com/def](http://cumminsfiltration.com/def).

**About Cummins Filtration**

*Cummins Filtration Inc. is a wholly owned business unit of Cummins Inc. and the world's leading designer and manufacturer of filtration and chemical technology products for all engine-powered equipment. The company's homepage can be found at [cumminsfiltration.com](http://cumminsfiltration.com). In North America, customers can call Cummins Filtration Customer Assistance at 1-800-22FILTER (1-800-223-4583) for more information. To find a local Fleetguard product retailer, customers can visit the Worldwide Retail locator at [cumminsfiltration.com/wrl](http://cumminsfiltration.com/wrl).*

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## 2009 News Releases

June 16, 2009

### New 1500 kW Rental Power unit from Cummins Power Generation offers high fuel capacity in a complete climate-tolerant package

MINNEAPOLIS - A new Rental Power unit from Cummins Power Generation Inc. provides versatility in a complete pre-integrated system with increased fuel capacity and better fuel economy than competitive models.

The 1500 kW Rental Power unit adds to the Cummins Power Generation portfolio of Rental Power systems from 35 kW to 2 MW for prime, emergency, standby, peak shaving and distributed generation applications.



Some of the new product's key benefits include:

**Climate tolerance:** A temperature-tolerant cooling system provides reliable operation in ambient temperatures to 113 degrees F (45 degrees C), enabling the generator set to operate at maximum load without derating in a range of demanding climates.

**Fuel capacity:** The exceptionally large fuel tank, ideal in remote locations, is designed to hold approximately 1,600 gallons of fuel for a run time of 22 hours at prime power (75 percent load) before refueling. That translates to fewer refueling trips, lower operating costs and a smaller carbon footprint.

**Environmental responsibility:** The new Rental Power unit meets Tier 2 emission requirements and can be fueled with B20 biodiesel fuel. For operation in environmentally sensitive areas, the unit protects against fuel spills with a dual-wall fuel tank and 110 percent engine compartment fluid containment.

The new 1500 kW Rental Power unit features the workhorse Cummins QSK50 diesel engine with Cummins Generator Technologies' Stamford alternator. The engine, generator and monitoring controls are all designed and built by Cummins Power Generation to work together seamlessly, explained Larry Fetting, general manager, Cummins Power Generation Global Rental segment.

"This complete pre-integrated system results in reduced installation time and higher system reliability for our Rental Power customers," Fetting said.

Lee Ann Duvall, product manager for Cummins Power Generation's Global Rental segment, noted that the user interface is designed for simplicity. "We take into account that many of our Rental Power customers are not experts in operating power generation equipment," Duvall said. "This integrated generator set provides precise frequency and voltage regulations using message displays and an alarm

message system in one easy-to-operate customer interface."

The unit's sound attenuation (74 dBA at 7 meters at full load) also is ideal for a wide range of applications where noise ordinances are in place, Duvall added.

Industry-leading PowerCommand® controls - only available from Cummins Power Generation - are part of the new system for performance and reliability.

"For over 80 years, Cummins Power Generation has designed, manufactured and supplied reliable, on-site power systems to keep our customers' operations running smoothly," Fetting said. "Today that dependable power is supplied and backed by our global network of distributors in over 190 countries, giving our customers the added peace of mind they expect from a world leader like Cummins Power Generation."

Industries the new 1500 kW Rental Power unit will serve 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 Madeline Foss, Cummins Power Generation, 1400 73rd Ave. NE, Minneapolis, MN 55432. Phone: 763-574-5942; fax: 763-574-5298. Or visit the Web site at [www.cumminspower.com/rental](http://www.cumminspower.com/rental).

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## CUMMINS ISBe MOVES UP TO 300PS FOR BUSES

Darlington, UK (June 8, 2009) -

Cummins class leading ISBe 6-cylinder engine now comes with additional power of up to 300ps for use in city bus applications. Available with 1100Nm of torque it meets Euro 5 and EEV emissions levels without the need for additional particulate filtration.

The 6.7 litre ISBe was launched in 2005 in preparation for Euro 4 emissions. It built on the success of the previous 5.9 litre design, which had already established itself as an accomplished engine for city bus use. The increased displacement allowed improved performance with higher power and torque. Using SCR aftertreatment as part of Cummins integrated system drove operational cost benefits of improved fuel economy and extended service intervals.

Since its introduction, the 6.7 litre ISBe has had significant success with bus manufacturers and operators across Europe and has established itself as the engine of choice for inner-city double deck bus applications. Euro 5 and EEV have also been achieved with all of the power and fuel economy benefits seen at Euro 4.


City buses are recognised as having extremely tough duty cycles due to the stop-start nature of operation. At Euro 4 the ISBe's top rating for city buses was 250ps with 1020Nm of torque. Based on over one million hours of successful operation Cummins Engineers have developed a new rating, moving it up to 300ps with 1100Nm of torque.

Neil Pattison, Cummins Automotive Business Leader for Europe said, "The ISBe has proved to be very robust and dependable in city bus operation. This experience has enabled us to extend the envelope of the engine without any impact on reliability or durability. The new 300ps rating means that the ISBe is suitable for buses with a higher passenger capacity or for more demanding routes."

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 \$755 million on sales of \$14.3 billion in 2008. Press releases can be found on the Web at [everytime.cummins.com](http://everytime.cummins.com).

EEV stands for “Enhanced Environmentally-friendly Vehicle”, and is a voluntary standard that is more stringent than the lowest levels introduced by the European Community to date, Euro 5. Versus Euro 5, EEV requires particulate matter to be reduced a further 33% (from 0.03 g/kW/hr to 0.02g/kW/hr) on the European Transient Cycle. Hydro-carbons, carbon monoxide and oxides of nitrogen (NOx) remain as low as Euro 5.

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### CLEAN C GAS PLUS ENGINES DELIVER LOW EMISSIONS IN TURKEY

Darlington, UK (June 8, 2009) -

Cummins Westport natural gas engines will power new buses to drive down emissions in Kayseri, Turkey. Cummins is working closely with Turkish manufacturer BMC to deliver nearly 200 12 metre city buses. These will go into service with the Kayseri Municipality, a large industrialized city in Central Anatolia with a population close to 900,000 people.

The C Gas Plus engines are developed by Cummins Westport Inc, a joint venture between Cummins Inc. and Westport Innovations Inc, which develops alternative fuel engines. They will be rated at 280hp with a peak torque of 1152 Nm and will meet Euro 4 emissions standards, introduced in Turkey in January 2009. This is a significant step, as the previous vehicles met Euro 1 emissions levels, and reflects a reduction in oxides of nitrogen emissions of over 50% and particulate emissions of over 90%.

Cummins Account Manager for BMC, Cigdem Saroglu said "Cummins has had a long standing partnership with BMC. Previous business has been focused on our diesel engines, so this new project is very exciting. It is BMC's and Cummins Westport's first volume order for natural gas engines in Turkey."

Originally there were 382 minibuses in Kayseri responsible for local transport. The government asked the minibus drivers to move to gas buses to support their efforts to improve air quality. The size and the capacity of the new BMC vehicles meant that two minibus drivers could share one new bus, reducing the required number of vehicles by one half. A typical minibus will carry 14 passengers, whereas the bus has seating for 36 with additional standing capacity. This helps provide traffic congestion benefits as well as reducing emissions.


"In addition to improving air quality, they expect the engines to show an improvement in fuel economy of between 30 to 40%. The lower noise of the gas product will also provide a more comfortable experience for passengers," continued Ms Saroglu.

"Operators will also be able to take advantage of the cost benefits of running on natural gas and be less susceptible to changes in diesel prices affected by the global fluctuations in the price of crude oil," she added.

The new buses will go into service from June 2009, and Kayseri will build two new gas stations to support the project.

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Cummins Westport Inc. manufactures and sells the world's widest range of low-emissions alternative fuel engines for commercial transportation applications such as trucks and buses. There are over 20,000 units in service around the world.

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