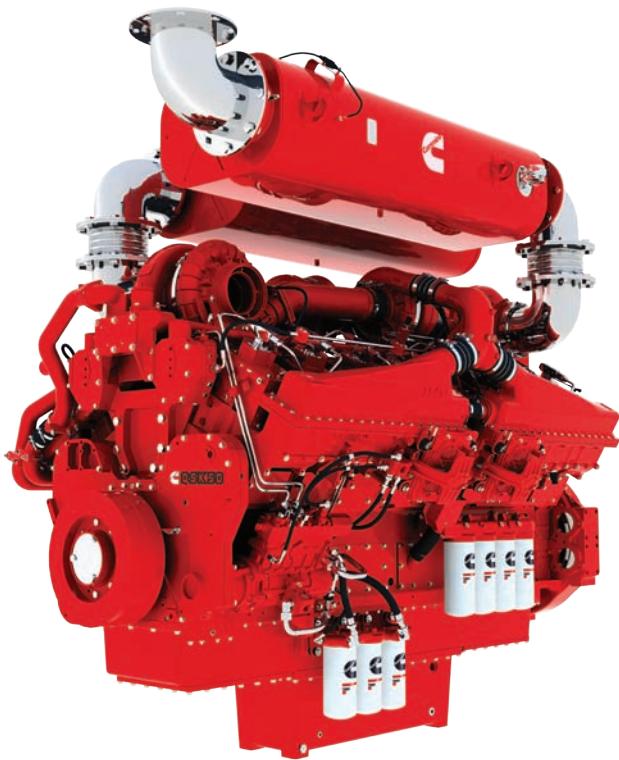




# Cummins Power For Well Servicing.





### Cummins Well Servicing Solutions.

Cummins engines for well servicing are the toughest in the industry – more than ready to meet every challenge of your blending, cementing, fracturing and workover applications. Specialized aggressive ratings are available on many of our engine models.

### Power For Every Shale Frac.

Extracting natural gas from shale formations successfully and safely requires the right products and technology. Multiple-stage frac jobs require hundreds of trucks and thousands of horsepower with the utmost in dependability. Cummins high-horsepower QSK60, QSK50, QST30 and QSK23 engines are designed for the high loads and high hours it takes to complete a frac job. These engines range from 760 hp to 3000 hp, and are in use today in the most demanding and tightest shale plays in North America, including Barnett, Haynesville, Fayetteville, Horn River and Marcellus, along with other shale plays throughout the world.

### Your Clear Leader.

Cummins has the emissions leadership to meet all regional and national requirements. Because Cummins is the only manufacturer to have all key technologies in-house, we design, develop, manufacture and integrate every component, from the air intake to the exhaust aftertreatment. Fully integrated technology helps us optimize performance, yielding higher productivity with uptime that you can depend on. It's the reason Cummins is in production of Tier 4 Final engines well in advance of the 2015 regulations taking effect.

### Taking The Complexity Out Of Tier 4 Final.

Every engine manufacturer faced a decision on which Tier 4 Final emissions-reduction technology would be the best for the oil-and-gas market. Each solution would mean changes to the equipment and its operation. Our Tier 4 Final solution demonstrates how very low emissions standards can be met with a simple solution while maintaining the performance that well-servicing equipment, drilling modules, mud pumps and well-servicing pumps require. Power, performance, reliability and durability are critical to the oil-and-gas industry. Cummins Tier 4 Final engines provide all of that, plus simplicity of installation, excellent productivity and a reduction in overall operating costs.

### Innovative Dual Fuel Engines.

Our innovation continues with the introduction of Cummins dual fuel engine technology. Our dual fuel engines provide seamless transitions from diesel to dual fuel operation, delivering considerable fuel savings while retaining the power density and transient response that customers have come to depend on from Cummins diesel engines. Cummins dual fuel technology can help you reduce fuel costs by up to 40 percent, promoting energy independence as it improves your bottom line.



### **Custom-Designed Workover Rig Packages.**

Workover rigs are a highly specialized application that demands a unique solution. Cummins Oil and Gas Center of Excellence builds and validates complete turnkey units to your specifications. These packages include emissions-compliant engines from 340 hp to 550 hp (254-410 kW). Our integrated controls system includes digital and analog displays that let you monitor operation from inside the cab or on the chassis deck.

### **A Singular Advantage.**

Using the same company to power your trucks and your frac pumps makes service and support easier. With our on-highway ISX15 and ISX12, Cummins is the only company that has the capability and technology to power both your trucks and frac operations in all of the United States and Canada. Our support network ensures that you can count on Cummins to continue to keep your equipment running in the field.

### **Assistance At Every Stage.**

With Cummins, you'll gain the advantage of complete on-site support through engineering, site planning, installation and startup. Our comprehensive approach gives our customers unparalleled advantages for planning, implementation and life-cycle management. That includes our commitment to equip operators with the right parts inventory and provide resources to train operators on-site. We stand ready to deliver industry-focused solutions and the broad infrastructure needed to help you master well-servicing challenges.

### **World-Class Customer Support. Worldwide.**

The strength of our established global support network allows us to be exceptionally responsive to your needs. The Cummins network spans the globe, providing all the support you need, with over 600 distributor service locations in over 160 countries working around the clock to meet your immediate needs for parts and service over the life of your equipment. Every location maintains a full parts inventory, including critical parts. If a piece of Cummins-powered equipment needs attention, one call to Mobile QuickServe® will result in an action plan within 30 minutes and a technician dispatched within four hours. Technicians arrive equipped with smart tools such as INSITE™ software for rapid diagnostics and troubleshooting.

### **Technical Assistance Just A Click Away.**

Technicians (ours and yours) have 24/7 access to QuickServe® Online ([quickserve.cummins.com](http://quickserve.cummins.com)). QSOL provides engine data and access to service resources for global support on all oil and gas drilling projects.

### **Unsurpassed Warranty Coverage.**

With Cummins, your well-servicing equipment is covered by the most comprehensive warranty in the business – from factory-supplied components to items manufactured by outside vendors.



### **Every Question, Answered.**

Cummins has the power to help your well-servicing capabilities reach further, with increased uptime and greater productivity. Most important, our presence and support worldwide make Cummins a proven, committed oil-and-gas partner you can always depend on. For additional details, visit [cumminsengines.com](http://cumminsengines.com) or contact your local Cummins distributor.

## Industrial

| ENGINE MODEL | RATING <sup>(1)</sup><br>(BHP)<br>(kWm) | CONFIG.   | DISPLACEMENT (L) | WEIGHT <sup>(2)</sup><br>(LB)<br>(KG) | EMISSIONS <sup>(3,4)</sup> | AFTERTREATMENT |                         |         |
|--------------|---|-----------|------------------|---------------------------------------|----------------------------|----------------|-------------------------|---------|
| QSB3.3       | 85-120                                  | 63-90     | I-4              | 3.3                                   | 606                        | 275            | U.S. EPA Tier 4 Interim | SCR     |
| QSB4.5       | 110-163                                 | 82-121    | I-4              | 4.5                                   | 860                        | 390            | U.S. EPA Tier 4 Final   | CCC/SCR |
| QSB6.7       | 146-300                                 | 109-224   | I-6              | 6.7                                   | 1,144                      | 519            | U.S. EPA Tier 4 Final   | CCC/SCR |
| QSL9         | 230-400                                 | 172-298   | I-6              | 8.9                                   | 1,561                      | 708            | U.S. EPA Tier 4 Final   | CCC/SCR |
| QSG12        | 320-500                                 | 239-373   | I-6              | 11.9                                  | 2,798                      | 1,269          | U.S. EPA Tier 4 Final   | DPF/SCR |
| QSX15        | 400-675                                 | 298-503   | I-6              | 14.9                                  | 3,166                      | 1,436          | U.S. EPA Tier 4 Final   | DPF/SCR |
| QSK19        | 506-800                                 | 377-597   | I-6              | 19                                    | 4,535                      | 2,057          | U.S. EPA Tier 4 Final   | SCR     |
| QSK23        | 760-1050                                | 567-783   | I-6              | 23                                    | 6,001                      | 2,722          | U.S. EPA Tier 4 Final   | SCR     |
| QST30        | 850-1500                                | 634-1119  | V-12             | 30.5                                  | 7,337                      | 3,328          | U.S. EPA Tier 4 Final   | SCR     |
| QSK45        | 2000-2250                               | 1491-1677 | V-12             | 45                                    | 13,199                     | 5,987          | Non-certified           | SCR     |
| QSK50        | 2000-2500                               | 1491-1864 | V-16             | 50.3                                  | 12,566                     | 5,700          | U.S. EPA Tier 4 Final   | SCR     |
| QSK60        | 2500-3000                               | 1864-2237 | V-16             | 60                                    | 21,206                     | 9,619          | U.S. EPA Tier 4 Final   | SCR     |

## On-Highway

| ENGINE MODEL | RATING <sup>(1)</sup><br>(BHP)<br>(LB-FT) | CONFIG.   | DISPLACEMENT (L) | WEIGHT <sup>(2)</sup><br>(LB)<br>(KG) | EMISSIONS <sup>(3)</sup> | AFTERTREATMENT |               |                                   |
|--------------|---|-----------|------------------|---------------------------------------|--------------------------|----------------|---------------|-----------------------------------|
| ISL9         | 345-380                                   | 1150-1300 | I-6              | 8.9                                   | 1,770                    | 803            | U.S. EPA 2010 | EcoFit Ultra-Low Emission Systems |
| ISX12        | 350-450                                   | 1350-1650 | I-6              | 11.9                                  | 2,798                    | 1,269          | U.S. EPA 2010 | EcoFit Ultra-Low Emission Systems |
| ISX15        | 525-600                                   | 1850-2050 | I-6              | 14.9                                  | 3,122                    | 1,416          | U.S. EPA 2010 | EcoFit Ultra-Low Emission Systems |

(1) Other ratings may be available. Some ratings may be restricted and require approval for use. Please contact your distributor.

(2) Wet weight with standard features. May vary based on selected configuration.

(3) Non-certified ratings are also available. Please contact your distributor.

(4) Engines >751 hp will comply with EPA Nonroad Tier 4 Interim requirements using Transitional Program for Equipment Manufacturers (TPEM). No European emissions regulations for engines >751 hp.



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