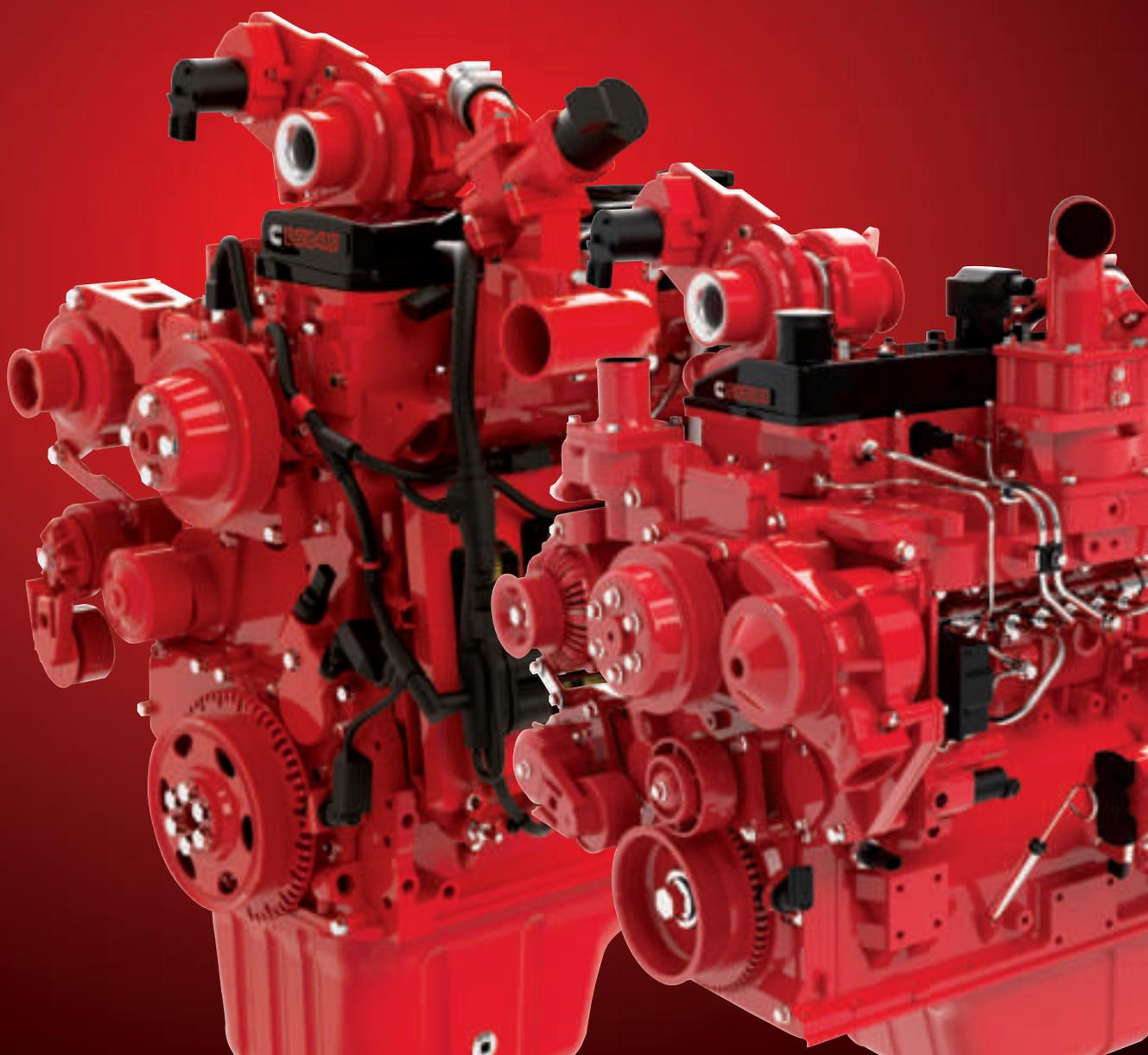


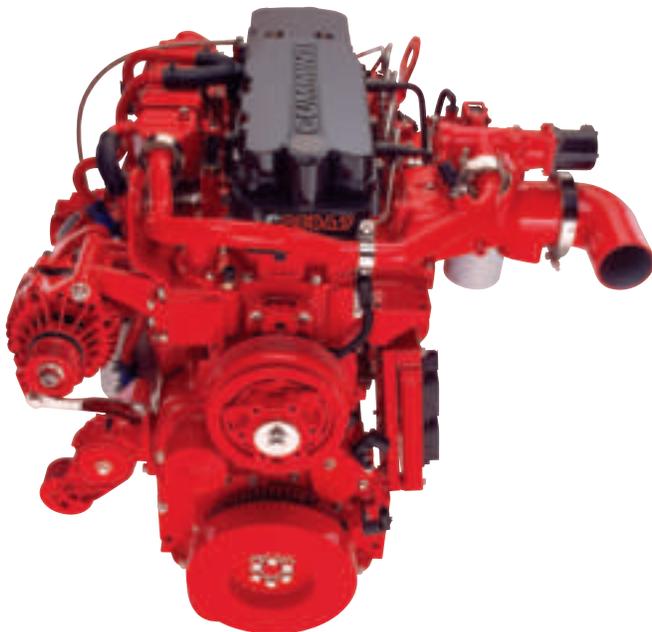


# A Simpler Solution. Every™ Engine.

QSB3.3, QSB4.5 And QSB6.7 (85-173 hp)  
Tier 4 Interim/Stage IIIB



# A Simpler Solution. Every™ Engine.



Everyone says they have the technology to meet the new Tier 4 Interim/Stage IIIB emissions standards. While that may be true, only Cummins has a simple solution that delivers the power you need without the complexity, operator training and maintenance needs.

The Cummins Compact Catalyst has been specifically developed for the 75-173 hp (56-129 kW) market and is fully passive and service-free. It removes Particulate Matter (PM) by oxidation with a simple flow-through operation. There is no particulate filter. No electronic controls or lamps. No regenerations.

Cummins engineers have combined the catalyst with our advanced High Pressure Common Rail (HPCR) fuel system and full-authority electronic controls, in a fully integrated package that delivers optimum performance, up to 5% better fuel economy, reliability and durability. Translated to user benefits, the results are faster cycling times, lower operating costs, less downtime for maintenance and greater productivity.

These combined engine and aftertreatment systems make it simpler for machine integration, fitting well into existing space-constrained compartments. In fact, the Cummins Compact Catalyst used on the QSB3.3 measures less than 20 inches (500 mm). It truly is a "fit and forget" component, ideal for rental applications.

## Cummins Compact Catalyst.

The Cummins Compact Catalyst represents the latest evolution of Diesel Oxidation Catalyst (DOC) aftertreatment, manufactured by Cummins Emission Solutions for over 15 years. The maintenance-free catalyst provides the installation simplicity needed for Tier 4 Interim and Stage IIIB engines below 174 hp (130 kW). The Cummins Compact Catalyst achieves efficient PM reduction with a catalytic coating and substrate uniquely tailored to QSB3.3, QSB4.5 and QSB6.7 engines. By passively oxidizing PM from the exhaust stream with the simplicity of a small flow-through catalyst, Cummins is able to achieve Tier 4 Interim emissions levels without compromising engine transient response or reliability.



## Small Size. Big Performance. Every QSB3.3.

The Cummins QSB3.3 has established itself as one of our most reliable diesel engines ever. For Tier 4 Interim/ Stage IIIB, it gets nearly a 10% increase in power output over the Tier 3 engine.

Ratings now reach as high as 120 hp (90 kW) with a peak torque of 306 lb-ft (415 N•m) while at the same time reducing emissions. That makes the QSB3.3 one of the most powerful engines in its class, comparable to 4- and 5-liter engines in a much smaller package.

The QSB3.3 is the first off-highway engine of this size to incorporate a HPCR fuel system and full-authority electronic controls. It also features a variable flow turbocharger, which improves boost across a wider range of engine speeds than a wastegate turbo – and avoids the complexity of dual-stage turbochargers. The Cummins Compact Catalyst completes the package.

Because Cummins designs and manufactures all of these components, we've been able to optimize fuel economy for up to 5% better efficiency, depending on the equipment's duty cycle. When you compare installation and operating advantages, Cummins QSB3.3 is your clear winner for compact excavators, skid steers, telehandlers, small cranes and other equipment. Every time.

## QSB3.3 Ratings

ENGINE MODEL	RATED HP(KW)	PEAK HP(KW)	PEAK TORQUE LB-FT(N•M)
QSB3.3 120	120 (90)	120 (90)	306 (415)
QSB3.3 110	110 (82)	120 (90)	306 (415)
QSB3.3 110	110 (82)	110 (82)	306 (415)
QSB3.3 100	100 (74)	110 (82)	306 (415)
QSB3.3 100	100 (74)	105 (78)	306 (415)
QSB3.3 85	85 (63)	94 (70)	277 (376)
QSB3.3 85	85 (63)	90 (67)	277 (376)

## QSB3.3 Specifications

Engine Type	In-Line, 4-Cylinder	
Displacement	199 cu in	3.3 Liters
Rated Power	85-120 hp	63-90 kW
Peak Torque	277-306 lb-ft	376-415 N•m
Bore and Stroke	3.74 in x 4.53 in	95 mm x 115 mm
Aspiration	Turbocharged and Charge Air Cooled	
Oil System Capacity	8.5 U.S. Quarts	8 Liters
Length	28.1 in	714 mm
Width	21.9 in	557 mm
Height	31.4 in	798 mm
Weight (Wet)	825 lb	374 kg
(Dry)	794 lb	360 kg
(Aftertreatment System)*	9.6 lb	4.4 kg

\*Depending on configuration

All ratings are intermittent unless otherwise noted. Additional ratings may be available. Check with your Cummins distributor or dealer.

## The Ideal Fit. Every QSB4.5.

With power output ranging from 110 to 163 hp (82-122 kW), the four-cylinder Cummins QSB4.5 delivers performance comparable to some six-cylinder engines, without excess bulk and weight. Power output and engine response are sufficient to handle the highest load factors, and the rugged dependability of the QSB4.5 has been proven under the most difficult operating environments.

The HPCR fuel system helps deliver quicker throttle response, while a more efficient variable flow turbocharger optimizes boost. This translates into faster cycle times and higher productivity on every piece of equipment.

HPCR and a robust electronic control system featuring the Cummins-designed CM2250 Electronic Control Module (ECM) allows for multiple injection events per combustion cycle, which increases the power output while reducing noise.

The increase in power output from the engine requires improved air handling, which is accomplished by the Cummins Direct Flow™ air filter. This filter utilizes an innovative “V-block” rectangular configuration that eliminates the wasted space in round air filter elements. An optional pre-cleaner cover is available, which removes 95% of particles before they reach the filter. This is especially helpful on job sites with high dust.

Cummins Compact Catalyst operates completely independent of engine controls, and can be mounted separately from the muffler or as part of a combined catalyst and muffler unit.

The Cummins QSB4.5 is the ideal fit for your compact equipment, your job requirements and your maintenance budget, offering significant advantages in every way.



## QSB4.5 Ratings

ENGINE MODEL	RATED HP(KW)	PEAK HP(KW)	PEAK TORQUE LB-FT(N•M)
QSB4.5 163	163 (122)	163 (122)	466 (632)
QSB4.5 160	160 (119)	163 (122)	460 (624)
QSB4.5 160	160 (119)	165 (123)	460 (624)
QSB4.5 155	155 (116)	155 (116)	460 (624)
QSB4.5 140	140 (104)	142 (106)	457 (620)
QSB4.5 130	130 (97)	140 (104)	457 (620)
QSB4.5 130	130 (97)	130 (97)	378 (512)
QSB4.5 130	130 (97)	140 (104)	457 (620)
QSB4.5 121	121 (90)	121 (90)	347 (470)
QSB4.5 115	115 (86)	120 (90)	360 (448)
QSB4.5 110	110 (82)	115 (86)	360 (448)

## QSB4.5 Specifications

Engine Type	In-Line, 4-Cylinder	
Displacement	275 cu in	4.5 Liters
Rated Power	110-163 hp	82-126 kW
Peak Torque	360-466 lb-ft	448-632 N•m
Bore and Stroke	4.02 in x 5.43 in	102 mm x 138 mm
Aspiration	Turbocharged and Charge Air Cooled	
Oil System Capacity	11.6 U.S. Quarts	11 Liters
Length	32.2 in	818 mm
Width	28.1 in	714 mm
Height	34.5 in	878 mm
Weight (Wet)	860 lb	390 kg
(Dry)	829 lb	376 kg
(Aftertreatment System)*	12.7 lb	5.8 kg

\*Depending on configuration

All ratings are intermittent unless otherwise noted. Additional ratings may be available. Check with your Cummins distributor or dealer.

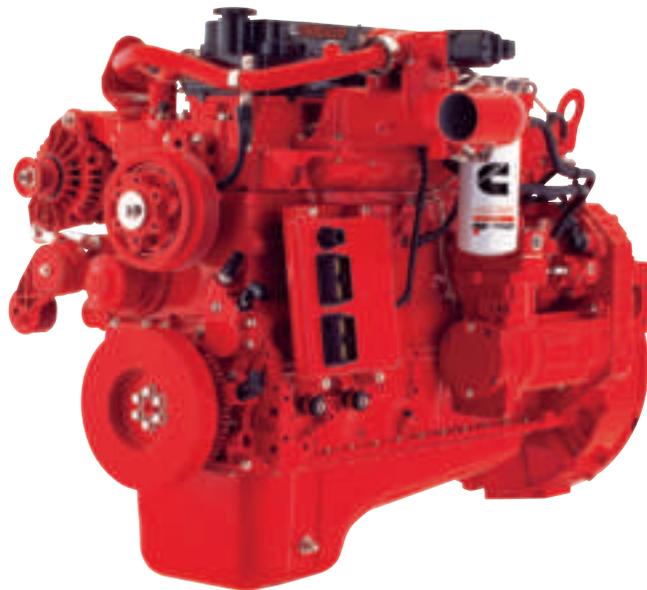
## Fit And Forget. Every QSB6.7.

Sometimes you just need the extra power and durability of a six-cylinder diesel. And you can't do better than the Cummins QSB6.7. Its proven design has been delivering dependable performance and exceptional reliability for years.

To meet Tier 4 Interim/Stage IIIB regulations, we're offering a choice of nine QSB6.7 ratings ranging from 146 to 173 hp (109-129 kW). Like the QSB3.3 and QSB4.5, the QSB6.7 will feature a cooled Exhaust Gas Recirculation (EGR) subsystem coupled with the Cummins Compact Catalyst to achieve low-emissions levels. The QSB6.7 is the only six-cylinder engine that offers the maintenance-free compact catalyst technology. It will also utilize the same HPCR fuel injection system, a more robust ECM and a VGT™ Turbocharger in a fully integrated package.

Depending on your duty cycles, you can expect this package to deliver up to 5% better fuel efficiency than the previous model, lowering operating costs while increasing job site productivity.

Of course, the best part of this system is that it's "fit and forget." There's no need for a Diesel Particulate Filter (DPF), active regenerations, reminder lamps or any kind of operator training or interaction. There's no maintenance to the Cummins Compact Catalyst, either.



### QSB6.7 Ratings Below 174 hp

ENGINE MODEL	RATED HP(KW)	PEAK HP(KW)	PEAK TORQUE LB-FT(N•M)
QSB6.7 173	173 (129)	173 (129)	590 (800)
QSB6.7 173*	173 (129)	173 (129)	590 (800)
QSB6.7 173	173 (129)	173 (129)	590 (800)
QSB6.7 170*	170 (127)	170 (127)	485 (658)
QSB6.7 165	165 (123)	168 (125)	540 (732)
QSB6.7 160	160 (119)	167 (125)	540 (732)
QSB6.7 158*	158 (118)	173 (129)	590 (800)
QSB6.7 155	155 (116)	158 (118)	496 (672)
QSB6.7 146*	146 (109)	162 (121)	540 (732)

### QSB6.7 Specifications

Engine Type	In-Line, 6-Cylinder	
Displacement	408 cu in	6.7 Liters
Rated Power	146-173 hp	109-129 kW
Peak Torque	485-590 lb-ft	658-800 N•m
Bore and Stroke	4.21 in x 4.88 in	107 mm x 124 mm
Aspiration	Turbocharged and Charge Air Cooled	
Oil System Capacity	25.3 U.S. Quarts	23.9 Liters
Length	41.7 in	1059 mm
Width	28.6 in	726 mm
Height	37.8 in	960 mm
Weight (Wet)	1,144 lb	519 kg
(Dry)	1,100 lb	499 kg
(Aftertreatment System)**	12.7 lb	5.8 kg

\*Indicates a continuous rating

\*\*Depending on configuration

All ratings are intermittent unless otherwise noted. Additional ratings may be available. Check with your Cummins distributor or dealer.

# Tools At Your Fingertips

## Every Confidence.

QSB3.3, QSB4.5 and QSB6.7 engines come with a full 2-year/2,000-hour warranty that covers all Cummins branded components, including the engine and exhaust aftertreatment. Major components coverage continues into the third year, up to 10,000 hours of operation from the date each engine is put in service. Three simple steps explain everything you need to know:

**Step One:** Full coverage on all Cummins industrial engines and branded components with unlimited hours for the first year of operation. This includes Cummins branded electrics such as alternators, starters and the Cummins Compact Catalyst.

**Step Two:** Full coverage is extended for the second year, up to 2,000 hours of operation. Total hours are cumulative from the date the engine goes in service.

**Step Three:** Major components coverage, including block, crankshaft, camshaft and rods on all products for the third year or up to 10,000 hours of operation. Total hours are cumulative from the date the engine goes in service.

## Encompass Extended Coverage.

Encompass gives you a flexible choice of plans that include parts and labor, or parts, labor and travel coverage. Encompass protection plans are available with your choice of up to five years of extended coverage with unlimited hours.

Encompass protection plans may be purchased up to six months after the in-service date of your Cummins QSB3.3, QSB4.5 or QSB6.7 engine. See your Cummins distributor for pricing. For additional details, ask to see our Industrial Encompass Protection Plan brochures.

## QuickCheck 5200.

The QuickCheck 5200 handheld computer transforms the way you look at engine data. It has a brilliant color screen, faster processing speeds, greater memory and longer battery life than its predecessor.

The rugged, portable and user-friendly QuickCheck 5200 is fully compatible with any electronic engine. Powered by the Microsoft Windows CE operating system, the QuickCheck 5200 device features an integrated data link adapter that connects to your engine via J1587 or J1939 industry-standard data links for rapid, trouble-free data capture. No separate adapter is required.

QuickCheck is ready to operate for Tier 4 Interim and all previous engine platforms. For a demonstration or to buy Cummins QuickCheck 5200, see your Cummins dealer or distributor.





## QuickServe® Online.

As a Cummins owner, you have access to one of the most comprehensive and powerful parts and service tools in the industry – Cummins QuickServe Online.

This is the same web site used by Cummins certified technicians to get parts and service information about your engine. And while it contains parts and service data for over 11 million engines, finding the information for your QSB3.3, QSB4.5 or QSB6.7 engine takes just seconds.

The first step is to register your engine. Go to [quickserve.cummins.com](http://quickserve.cummins.com) and click on “Create an Account.” There you will see the different subscription plans you can choose from. You have the option to register for free or purchase one of the subscription plans to access additional information. Once you have registered, you simply enter the engine serial number listed on your data plate, and you will be able to view customized information about your engine at your convenience.

For an annual subscription fee, you can register for the Limited Owners Plan to get access to a cross-reference of Cummins ReCon® parts, service bulletins and the latest repair procedures. QuickServe Online even gives exploded parts diagrams to help with identification of components in subassemblies.

With the Limited Owners Plan, you can use the Shopping Cart feature to create a pick list of parts that you need. Distributor contact information is available online so you can review your parts list with your local Cummins distributor to make sure that you have every part needed to complete your engine repair. To register, visit [quickserve.cummins.com](http://quickserve.cummins.com).

## INSITE.™

INSITE is a PC-based software application that provides quick and easy access to your engine’s electronic performance information, which enables faster service turnaround times. INSITE helps ensure accurate procedures and diagnoses, and limits downtime while increasing productivity and profits.

Cummins INSITE software supplies engine information quickly, getting the inside details you need. No matter what kind of equipment you run, INSITE is the one support product to have in your virtual toolbox to fit every Cummins electronic engine, regardless of emissions level.

## Every Question. Answered.

To learn more about Tier 4 Interim/Stage IIIB, please see [www.Tier4.info](http://www.Tier4.info). If you have additional questions regarding Cummins engines, or want to register your engine, use one of the following methods to contact us:

**Service Network** – Cummins engines are backed by the strength of Cummins global network of over 6,600 service locations worldwide.

**Cummins Care** – For questions regarding your Cummins engine or for assistance in finding a repair facility, call Cummins Care at 1-800-DIESELS™ (1-800-343-7357). Customers in Europe, the Middle East or Africa should call +44 (0) 1327 886464, or e-mail [cabo.customerassistance@cummins.com](mailto:cabo.customerassistance@cummins.com).

For online assistance to Cummins-related questions, click on the “Contact Us” link in the header at [cumminsengines.com](http://cumminsengines.com).

**Cummins Online Registration** – Register all your Cummins engines quickly and easily at [cumminsengines.com](http://cumminsengines.com) to ensure quality parts and service for your engine.



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