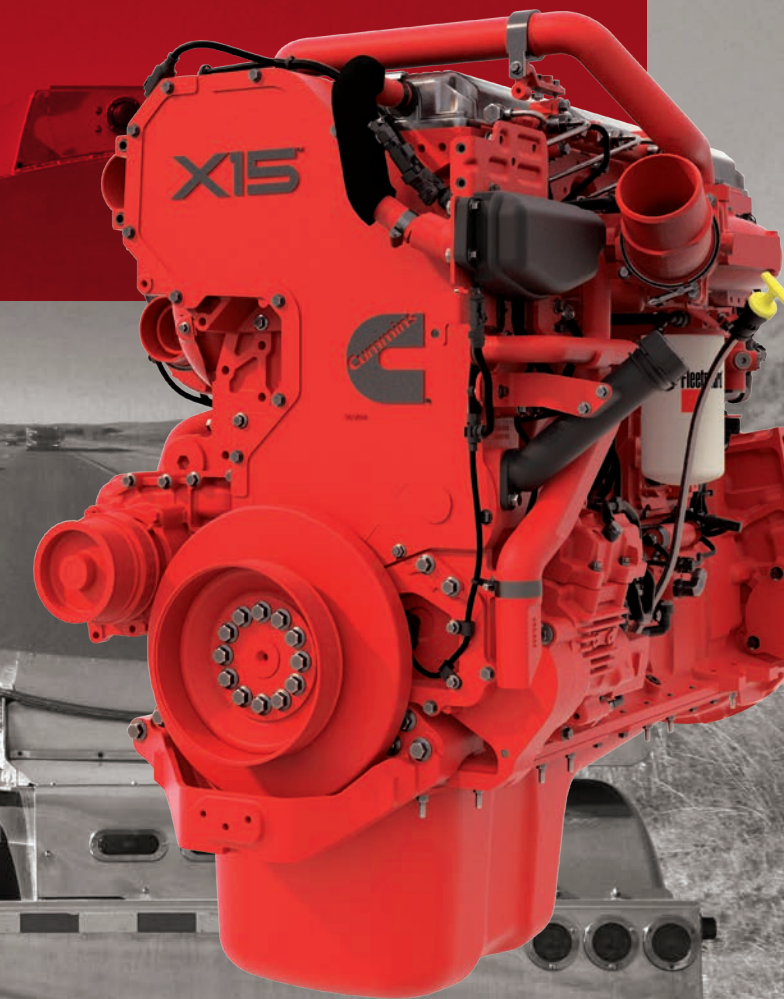


# PRODUCTIVITY FOR A WORLD THAT'S ALWAYS ON.

CUMMINS X15™ PRODUCTIVITY SERIES FOR TRUCK,  
HEAVY WEIGHT LINEHAUL, HEAVY-HAUL VOCATIONAL,  
REGIONAL HAUL AND MULTIPURPOSE APPLICATIONS



ALWAYS ON





# THERE'S NO SUBSTITUTE FOR HARD WORK... OR HORSEPOWER.

Have you ever worked with someone who rolls out of bed and wants to tackle the toughest job of the day before sun up? Well, the X15 Productivity Series is what that type of person wants under the hood. With up to 605 horsepower, this engine shows up to work looking for a challenge while never taking a day off. Whether you're pulling a full load of logs up a muddy incline, driving a concrete mixer over unpaved terrain or operating an emergency vehicle, the X15 Productivity Series is up to the task.

## DESIGNED TO HANDLE THE HEAVY LIFTING.

If you run concrete mixers, refuse vehicles, larger dump trucks or any other heavy application with severe duty cycles, Cummins new X15 Productivity Series ratings have the torque, responsiveness and rugged durability that you demand. The X15 Productivity Series ratings offer a higher output capacity (up to 605 hp with 2050 lb-ft of peak torque) than any other engine in the heavy-duty market. More important, the component set delivers superior responsiveness to throttle input – engineering-speak for plenty of muscle to get you rolling up to speed with a full load on hilly terrain.

## THE BEST OF BOTH WORLDS.

2020 X15 Productivity Series ratings from 430-500 horsepower share common hardware with the X15 Efficiency Series ratings. The higher output ratings from 565-605 hp share higher-capacity components from the X15 Performance Series ratings.

This dual engineering strategy ensures that the X15 Productivity Series has the output required to meet power demands while optimizing fuel economy and operating costs. Engine speeds (rpm) are optimized to provide additional flexibility in applications that demand maximum productivity.

The X15 Productivity Series ratings that are 500 horsepower and below provide the operator with similar fuel economy as the X15 Efficiency Series when operating in like-for-like applications but can vary slightly depending on vehicle configuration or shifting differences. New software gives you the flexibility you need for enhanced drivability and performance to get up to speed faster. The ratings above 500 horsepower achieve the same peak torque as the X15 Performance Series ratings, while, providing an extended horsepower and engine speed range – which keeps you in the power-band of the engine when you need it most and up to 605 horsepower, with industry leading engine brakes.



## SMALL IMPROVEMENTS. BIG DIFFERENCE.

The X15 Productivity Series ratings with shared Efficiency Series hardware feature a new main cap, a larger thrust bearing and an enhanced crank forging and machining for improved performance, reliability and durability. A modified piston design with a higher compression ratio helps improve power cylinder performance.

## X15 MAINTENANCE INTERVALS. GO LONG.

Cummins X15 engines have some of the longest maintenance intervals in the transportation industry. Our fully-serviceable Single Module™ aftertreatment system has built-in sensors that tell you when the DPF finally needs to be changed – so you get every single mile you can out of it.

| ITEM   | SEVERE<br><5.0 MPG                       | SHORTHHAUL<br><5.0 - 5.9 MPG | NORMAL<br>6.0 - 6.9 MPG                  | LIGHT<br>>7.0 MPG                          |
|--|--|------------------------------|--|--|
| OIL DRAIN<br>INTERVAL LEVEL                  | 25,000 Mi<br>40,000 Km                   | 40,000 Mi<br>64,000 Km       | 50,000 Mi<br>80,000 Km                   | 75,000 Mi<br>120,000 Km                    |
| X15 OIL DRAIN<br>WITH<br>VALVOLINE PB*       | 30,000 Mi<br>48,000 Km                   | 45,000 Mi<br>72,000 Km       | 55,000 Mi<br>89,000 Km                   | 80,000 Mi<br>130,000 Km                    |
| X15 OIL DRAIN<br>WITH CUMMINS<br>OILGUARD™ 1 | extensions<br>available                  | extensions<br>available      | extensions<br>available                  | Up to 100,000 Mi<br>160,000 Km             |
| FUEL FILTER <sup>2</sup>                     | 25,000 Mi<br>40,000 Km                   | 40,000 Mi<br>64,000 Km       | 50,000 Mi<br>80,000 Km                   | 75,000 Mi**<br>112,000 Km                  |
| DIESEL<br>PARTICULATE<br>FILTER <sup>3</sup> | 250,000-400,000 Mi<br>400,000-640,000 Km |                              | 400,000-600,000 Mi<br>640,000-960,000 Km | 600,000-800,000 Mi<br>960,000-1,300,000 Km |
| DIESEL EXHAUST<br>FLUID FILTER               | 300,000 Mi<br>480,000 Km                 | 300,000 Mi<br>480,000 Km     | 300,000 Mi<br>480,000 Km                 | 300,000 Mi<br>480,000 Km                   |
| VALVE<br>ADJUSTMENT                          | 500,000 Mi<br>800,000 Km                 | 500,000 Mi<br>800,000 Km     | 500,000 Mi<br>800,000 Km                 | 500,000 Mi<br>800,000 Km                   |

If combined percent idle time plus power takeoff (PTO) time is greater than 40% for shorthaul, normal or light intervals, use the lower drain interval.

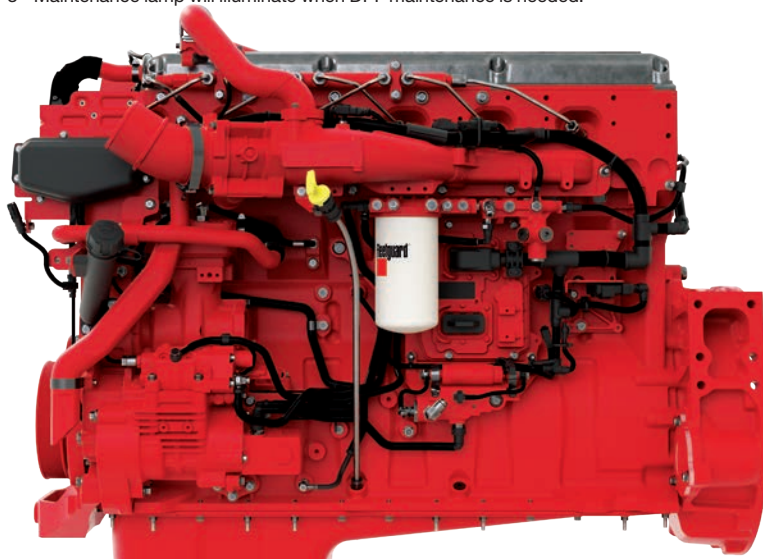
\* Cummins recommends Valvoline Premium Blue™ (PB 8600ES)

\*\* Extending the fuel filter interval from 60,000 miles to 75,000 requires use of an extended filter available through Cummins service network.

1 - Up to 100,000-mile oil drain interval with participation in Cummins OilGuard® oil analysis program.

2 - For Premium Blue users, the fuel filter interval matches the ODI.

3 - Maintenance lamp will illuminate when DPF maintenance is needed.







# CUMMINS X15 PRODUCTIVITY SERIES

## TAILORED FOR YOUR APPLICATION. OPTIMIZED FOR YOUR BOTTOM LINE.

Transmission compatibility and integration vary by the type of vehicle being powered. Vocational powertrains are available with a wide range of options, from manual and automatic transmissions to automated manual and fully automated transmissions. Customers looking for a balance of performance and efficiency can benefit from seamless integration of the engine and transmission. Every driver, from novice to experienced pro, will appreciate the smooth, strong shifting characteristics and powerful acceleration.

## X15 PRODUCTIVITY SERIES SPECIFICATIONS

|                          |                   |                   |
|--------------------------|-------------------|-------------------|
| ADVERTISED HORSEPOWER    | 430 - 605 hp      | 321 - 451 kW      |
| PEAK TORQUE              | 1650 - 2050 lb-ft | 2237 - 2779 N • m |
| GOVERNED SPEED           | 2000 - 2100 RPM   |                   |
| CLUTCH ENGAGEMENT TORQUE | 1000 lb-ft        | 1356 N • m        |
| NUMBER OF CYLINDERS      | 6                 |                   |
| SYSTEM WEIGHT            | 3152 lb           | 1430 Kg           |
| ENGINE (DRY)             | 2961 lb           | 1343 Kg           |
| AFTERTREATMENT SYSTEM    | 191 lb            | 87 Kg             |

## **X15 PRODUCTIVITY SERIES FEATURES.**

- VGT Turbocharger – Highly reliable and precise design for rapid acceleration
- XPI Fuel System – High pressure enables multiple injection events per cycle for industry-leading fuel economy and quieter operation
- Single-Module™ Aftertreatment System – A compact and lightweight, fully serviceable system that offers increased ash capacity and extended maintenance intervals
- Longer-Lasting Fuel And Lube Filters – Superior holding capacity provides better protection and enables longer service intervals, and NanoNet™ media provides industry-leading protection at 3 microns
- Higher-Capacity Electronic Control Module – This allows for full integration of data inputs from all subsystems, optimizing performance
- Cummins Engine Brake – With up to 600 braking horsepower, it's the most powerful in the industry. Stronger braking capacity reduces wear on service brakes and replacement costs
- Connected Diagnostics™ – Capable of transmitting engine/vehicle data via telematics for remote troubleshooting



# KEEPING YOU ON THE ROAD. NOT IN THE BAY.

Cummins Care makes your workload easier by creating a seamless support experience. You can expect to get complete solutions while working with one of over 3,700 authorized parts and service locations. Visit [care.cummins.com](http://care.cummins.com) or call 1-800-CUMMINS™ (1-800-286-6467) to connect with a Cummins Care expert. The Cummins Guidanz™ mobile app and INLINE™ mini-adapter allow for key engine information to be downloaded on a smartphone or tablet. You don't even have to wait in line for a diagnostic bay to open – your vehicle's info can be downloaded while standing right outside the cab. Cummins suite of Connected Solutions uses wireless technology to manage your engine's health. This includes Connected Diagnostics, our Connected Advisor program and Connected Software Updates that let you update engine control module calibrations over the air, from the road or wherever your trucks are domiciled.



## X15 PRODUCTIVITY SERIES RATINGS

EFFICIENCY HARDWARE

| Model Name | Horsepower   | Peak Torque (lb-ft @ RPM) | Governed RPM |
|------------|--------------|---------------------------|--------------|
| X15 430    | 430 (320 kW) | 1650 @ 950                | 2000         |
| X15 450    | 450 (335 kW) | 1650 @ 950                | 2000         |
| X15 450    | 450 (335 kW) | 1750 @ 950                | 2000         |
| X15 470    | 470 (350 kW) | 1750 @ 950                | 2000         |
| X15 500    | 500 (373 kW) | 1650 @ 950                | 2000         |
| X15 500    | 500 (373 kW) | 1850 @ 950                | 2000         |

PERFORMANCE HARDWARE

| Model Name | Horsepower   | Peak Torque (lb-ft @ RPM) | Governed RPM |
|------------|--------------|---------------------------|--------------|
| X15 565    | 565 (421 kW) | 1850 @ 1150               | 2000         |
| X15 605    | 605 (450 kW) | 1850 @ 1150               | 2000         |
| X15 605    | 605 (450 kW) | 2050 @ 1150               | 2000         |
| X15 505EV  | 505 (415 kW) | 1850 @ 1150               | 2100         |
| X15 565EV  | 565 (421 kW) | 1850 @ 1150               | 2100         |
| X15 605EV  | 605 (450 kW) | 1850 @ 1150               | 2100         |
| X15 605EV  | 605 (450 kW) | 2050 @ 1150               | 2100         |
| X15 565RV  | 565 (421 kW) | 1850 @ 1150               | 2100         |
| X15 605RV  | 605 (450 kW) | 1950 @ 1150               | 2100         |



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Bulletin 5600307 Printed in U.S.A. 4/20  
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