



# WE WROTE THE BOOK ON HIGH-PERFORMANCE DIESEL ENGINES.



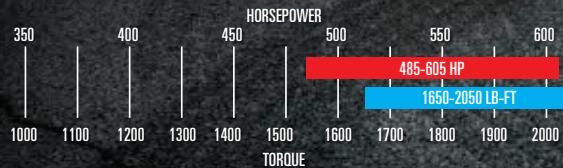
It began as a radically innovative platform, complete with dual overhead cams, exceptionally strong engine braking and an even tougher head and block, for unrivaled dependability. The Cummins ISX15 rapidly outpaced the competition, becoming the industry's dominant big-bore engine over the past three decades.

But at Cummins, we're never satisfied with the status quo. So virtually every critical component, including the power cylinder, camshaft, turbo and fuel system, has been scrutinized, modified, upgraded and improved. All that makes the 2017 X15 a completely reinvented platform that delivers the best performance and dependability in the industry.

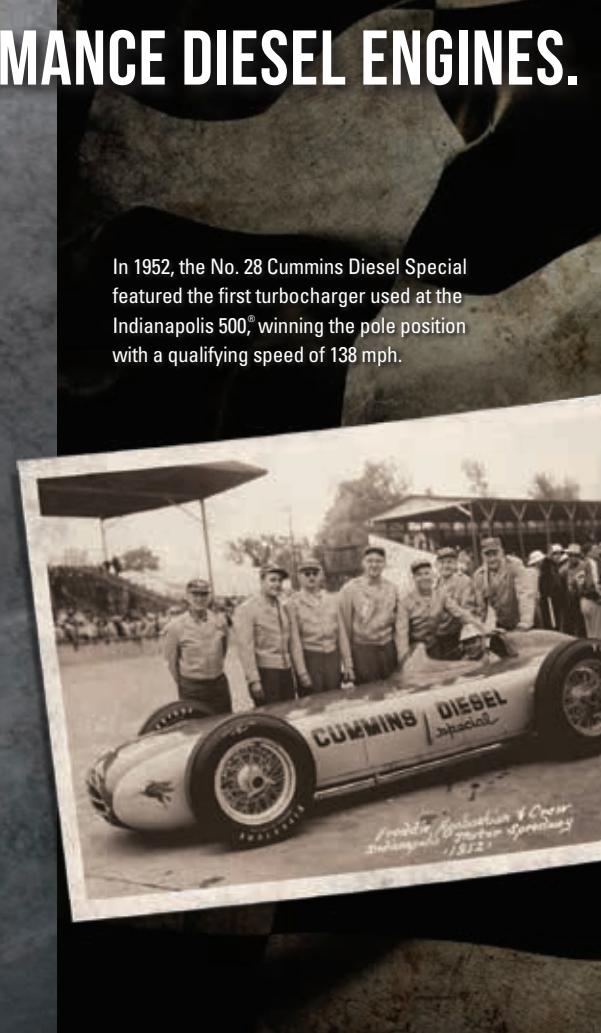
These enhancements improve air handling, for faster throttle response plus even stronger braking power at lower rpm. In addition to delivering the rewarding performance drivers want, the X15 delivers superior fuel economy over competitive engines. So you can blow past other trucks – as well as diesel stops.

## X15 PERFORMANCE RATINGS.

With ratings up to 605 hp and 2050 lb-ft, the X15 Performance Series has the power and torque to conquer whatever you throw at it.



For a complete list of ratings, visit [cumminsengines.com](http://cumminsengines.com).



In 1952, the No. 28 Cummins Diesel Special featured the first turbocharger used at the Indianapolis 500, winning the pole position with a qualifying speed of 138 mph.



# THE RECORD BOOK.



## WANT TO KICK SOME BUTT ON HILLS? WE THOUGHT SO.

The 2017 X15 delivers power on the hills like a hot rod coming off the starting line.

With ratings from 485 hp to 605 hp and available torque up to 2050 lb-ft, this is the most powerful engine available in a truck. The extra muscle of 15 liters means that the X15 doesn't have to work as hard pulling the load, so you've got an engine that's going to use less fuel, last longer and be worth more at the end of the run. Yeah, going big pays big dividends.

But you already knew that.

## IT ALL STARTS WITH DEPENDABILITY.

At Cummins, dependability goes way beyond engine performance or a response to a service event. It means being able to count on us to do what we say we will do. Dependability means that you don't have to worry. Dependability is what separates an industry-defining product from the competition, and creates a legacy for decades to come.

We've run over 9 million total miles in the largest field test in the history of the company. With our new X15 engine platform, we are reconfirming our commitment to provide customers with the most dependable product in the market. Period.



## 600 BRAKING HORSEPOWER FROM AN ENGINE. BELIEVE IT.

The X15 is optimized to deliver the power to get you past traffic and over the next hill. But what's really impressive is what happens when you crest the hill and take your foot off the accelerator. That's when the most powerful engine brake in the industry kicks in, and you just ease on down the road. You get over 450 braking horsepower (bhp) at 1500 rpm, and up to 600 bhp at 2100 rpm. The X15 lets drivers go light on the brake pedal, saving wear and tear on service brakes while maintaining a higher degree of control.



"Not only does the performance package have great pulling power, but the stopping power is second to none. The engine braking is phenomenal."

– Frank Madril,  
Cummins Redefining Tour Driver



After competing at the Indianapolis 500® in 1950, the Cummins Diesel Special #61, known as the Green Hornet, achieved fame at Bonneville Salt Flats, Utah, by setting a new record diesel speed of 165 mph. The Kurtis Kraft® chassis was powered by a 340-hp racing version of the 6-cylinder, 6.6-liter JBS-600, featuring supercharging and innovative Cummins PT® pressure-time fuel injection.



## ONE DOES THE WORK OF TWO: SINGLE MODULE™ AFTERTREATMENT.

Designed by Cummins Emission Solutions, this is truly a one-piece design. Up to 40 percent lighter and up to 60 percent smaller, it has better heat management, and offers easier serviceability. Plus, Diesel Particulate Filter (DPF) ash capacity has been increased to more than double the cleaning intervals in many cases.

## IMPROVED DOSER.

A second-generation urea doser eliminates the need for engine coolant lines to and from the injector, and prevents crystallization and clogging of Diesel Exhaust Fluid (DEF) within the unit. The combination of better spray performance, enhanced mixing and reduced deposit formation makes this unit far more robust and reliable than alternative aftertreatment systems.



# X15 FEATURES.

## VGT® Turbocharger From Cummins Turbo Technologies

This turbocharger has variable geometry, for precision and responsiveness. The actuator is four to six times stronger than that of previous versions, for even better dependability. An enhanced design with a new impeller provides rapid boost and improved engine braking.

## XPI Fuel System From Cummins Fuel Systems

The XPI system delivers superior performance, regardless of engine rpm. Multiple injection events per cycle improve fuel efficiency and enable smoother, quieter operation. Steel plungers and diamondlike coated roller tappets make this the toughest XPI fuel system to date.

## Single Module™ Aftertreatment System From Cummins Emission Solutions

A flow-through design offers better heat management, for improved efficiency. Increased ash capacity means fewer cleanings. And it's up to 40 percent lighter and 60 percent smaller than two-part systems.

## Fleetguard® Fuel Filters And Lube Filters From Cummins Filtration

These filters protect against corrosion and contaminants that can cause performance issues. The Fleetguard LF 14000NN lube filter provides less restriction, for faster flow and better cold-start capability, while still trapping nearly 99 percent of particles down to 4 microns.

## High-Capacity Electronic Control Module (ECM)

The robust ECM manages the engine and aftertreatment system simultaneously, for optimum performance and fuel efficiency, and is factory-ready for over-the-air programming when connected to a capable telematics system.

## Cummins Engine Brake

The most powerful engine brake in the industry offers up to 600 bhp, adding control on downhill grades, and helping reduce service brake wear, downtime and replacement costs.



## Connected Diagnostics™

This software-only application works through the telematics system of your preference to wirelessly connect the engine to Cummins for rapid fault diagnosis. Information and expert Cummins guidance maximize uptime.

## Power Cylinder Improvements

Combustion's hot. That's bad for your oil. The X15 incorporates an enhanced piston design that reduces the transfer of heat to the oil, increasing both durability and oil-drain intervals.



## SAY “NO” TO HIGH MAINTENANCE, “YES” TO LONG LIFE.

Don’t sweat the numbers. This engine doesn’t need to be babied. With longer maintenance intervals, the less time your trucks spend in the shop, and the more loads you can carry. So instead of bleeding your wallet dry, you’re stuffing it instead. It gives new meaning to “win/win.”

### X15 MAINTENANCE INTERVALS.

Item	Severe < 5.5 mpg mi/km	Normal 5.5-6.5 mpg mi/km	Light > 6.5 mpg mi/km
Oil Drain Interval	25,000 mi 40,000 km	35,000 mi 56,000 km	50,000 mi 80,000 km
Oil Drain with OilGuard <sup>1</sup>	—	—	Up to 80,000 mi Up to 130,000 km
Fuel St 1 Filter	25,000 mi 40,000 km	35,000 mi 56,000 km	50,000 mi 80,000 km
Fuel St 2 Filter	25,000 mi 40,000 km	35,000 mi 56,000 km	50,000 mi 80,000 km
Diesel Particulate Filter <sup>2</sup>	250,000-400,000 mi 400,000-640,000 km	400,000-600,000 mi 640,000-960,000 km	600,000-800,000 mi 960,000-1,300,000 km
DEF Filter	250,000 mi 400,000 km	280,000 mi 448,000 km	300,000 mi 480,000 km
Valve Adjustment	500,000 mi 800,000 km	500,000 mi 800,000 km	500,000 mi 800,000 km

Cummins recommends Valvoline Premium Blue<sup>®</sup>.

1 – Up to 80,000-mile oil drain interval with participation in Cummins OilGuard oil analysis program.

2 – Maintenance lamp will illuminate when DPF cleaning is required.

**X15**  
PERFORMANCE  
SERIES

**485-605 HP**

**1650-2050 LB-FT TORQUE**

To prove the durability of the new 11-liter Model H, Clessie Cummins installed the 125-hp engine in the Cummins Diesel Test Truck, and embarked on a nonstop endurance run at Indianapolis Motor Speedway<sup>®</sup> in 1931. The truck was modified to refuel and service while in motion, and after two grueling weeks of circling the track, came in at 13,535 miles – well beyond all previous records.



# BRAWN AND BRAINS.

The value that Cummins is bringing to the trucking industry goes well beyond engine hardware.

Every X15 is factory-ready to connect to a capable telematics system to enable Over-the-Air (OTA) engine programming and customization. In addition to our proven Connected Diagnostics,<sup>TM</sup> we're introducing a new level of customer services enabled by data and Cummins expertise.

 **Connected  
Solutions<sup>TM</sup>**





## OVER-THE-AIR CAPABILITY.

A first for the market, Cummins will enable you to manage your engine system remotely when it is connected to a capable telematics system. Want the latest engine calibration software update without taking time out of your schedule? The new Connected Calibrations™ family of applications will enable updates without a visit to the service bay. Or maybe tune your engine for higher performance, and return to a lower rating later. Or track engine parameters of your entire fleet from your office. The growing family of Connected Tuning™ applications provides that capability. The power of Cummins information and services enabled by data will empower you to keep your trucks rolling and customers happy.



## Connected Diagnostics™

The minute a fault code is generated, Connected Diagnostics uses your on-board telematics system to connect with Cummins. Instantly, a snapshot of performance data is analyzed and compared to our worldwide history for diagnosis. A probable cause is determined, and a recommended action is sent to fleet management.

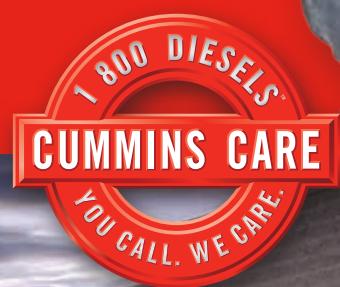
## TRUST MAKES ALL THE DIFFERENCE.

The most reassuring part of owning any Cummins-powered vehicle is knowing that we've always got your back. Cummins engine experts and our extensive training programs ensure service and support excellence you can depend on, no matter the situation.

We are committed to the success of your business, which means complete dedication to working with you on everything from upfront vehicle and engine spec'ing to maximizing your vehicle uptime. You aren't just buying a Cummins engine; you're buying Cummins expertise and commitment, anywhere and everywhere your business takes you.

## BIGGER IS BETTER. CUMMINS CARE.

There's no telling where your next contract is going to take you, but one thing's certain – there will be an authorized Cummins facility close by. With over 3,500 locations, we have the most comprehensive and most capable service network out there. And finding a location is as easy as calling 1-800-DIESELS™ (1-800-343-7357). You'll get to speak with a Cummins Care representative who knows how to get stuff done the right way, right away.



## REDEFINING PERFORMANCE. INCREASING VALUE.

You want power? You want performance? You want reliability and durability? You can't do better than Cummins X15. Plus, you get the best fuel economy in the industry and the longest maintenance intervals, for lower maintenance costs. Connected Diagnostics that accelerate service accuracy and speed. Top that off with the largest, most capable parts and service network in the industry. It's a total package that adds up to the best resale value of any engine in the industry. With a Total Cost of Ownership that makes the competition look like a tiny spec out the side-view mirror. To learn more about Cummins X15, visit [cumminsengines.com](http://cumminsengines.com).

## WE'VE GOT YOUR BACK.

Peace of mind comes from knowing that you've bought a quality product, and that the manufacturer will stand behind it. Cummins offers a wide variety of protection plans for X15 engines, tailored to meet the needs of specific applications and trade cycles. Extended coverage allows you to make financial projections with complete confidence, with protection plans up to 7 years or up to 500,000 miles (804,672 km) on registered parts and labor. Cummins extended coverage plans are available covering internal components and major engine systems, including the turbocharger, water pump and fuel injectors, air compressor, fuel pump and select engine sensors. For details, contact your Cummins distributor or dealer.



## A BASE WARRANTY THAT COVERS ALL THE BASES.

Base engine warranty coverage\* for Cummins X15 includes parts and labor on warrantable failures for both the engine and aftertreatment system—with no deductible. Cummins base warranty coverage is good for 2 years/250,000 miles (402,336 km).

\*Covers defects in Cummins materials or factory workmanship.



# X15

PERFORMANCE  
SERIES



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Bulletin 5410583 Printed in U.S.A. 7/16  
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