

NEAR ZERO EMISSIONS

NATURAL GAS ENGINE PORTFOLIO



**FOR
A WORLD
THAT'S
ALWAYS ON™**

WHY NATURAL GAS?

Natural gas engines help lower emissions and reduce a vehicle's overall environmental impact without sacrificing the performance needed to get the job done.

The Cummins B6.7N, L9N and ISX12N set the standard for natural gas engine performance and reliability while offering near-zero emissions.

- NOx levels 90% below current EPA standards
- Particulate Matter levels 90% below current EPA standards
- CO₂ equivalents 16% below current EPA standards
- Can achieve sub-zero emissions when using renewable natural gas (RNG)

Natural gas engines are also the most mature, proven and least disruptive alternative power technology available today.

CUMMINS NATURAL GAS ENGINES:

- Fit current transportation / people and goods movement models
- Are powered with abundant, low-priced domestic fuel
- Don't require radical changes in vehicle technology or transportation and support infrastructure
- Meet U.S. energy source goals
- Contribute to energy independence initiatives
- Deliver on fossil fuel reduction initiatives





THE INDUSTRY LEADER IN CLEAN, RELIABLE NATURAL GAS ENGINES

Leveraging the experience gained from manufacturing nearly 85,000 engines, our portfolio of 6 to 12-liter spark-ignited engines delivers ultra-low NOx emissions across a variety of on-highway commercial applications, including truck, school and transit bus and vocational use. Our dedicated 100% natural gas engines are manufactured by Cummins, backed by Cummins' industry-leading support network and are available as factory-direct options from leading truck and bus manufacturers.

OPERATIONAL ADVANTAGES

With an abundance of on-board fuel storage options, natural gas engine range capability could be more than 700 miles, offering route flexibility for on-highway truck and bus applications.

Natural gas is well suited for:

- regional, LTL carriers, drayage, contract mail carriers and any "return-to-base" type of operations
- refuse, vocational, ready-mix and municipal type fleets and more
- school bus, straight trucks, yard spotters and package delivery vehicles

ABUNDANT AND LOW-COST DOMESTIC FUEL

Compressed natural gas is transferred via millions of miles of pipeline throughout North America. There are more than 800 public natural gas refueling sites.

SOCIAL BENEFITS OF NATURAL GAS ENGINES

- 90% cleaner NO_x emissions than EPA standards
- 27% lower CO₂ emissions than petroleum
- 13–17% lower well-to-wheel greenhouse gas (GHG) emissions
- Lower PM emissions
- Drivers don't smell like diesel fuel after refueling
- No exhaust odor
- Quieter than diesel, reduces driver fatigue

MAINTENANCE- AND FLUID-FREE EXHAUST TREATMENT SYSTEM

The maintenance and fluid-free exhaust treatment system on our natural gas engines is similar to the catalyst on gasoline-powered passenger cars or pick-up trucks.

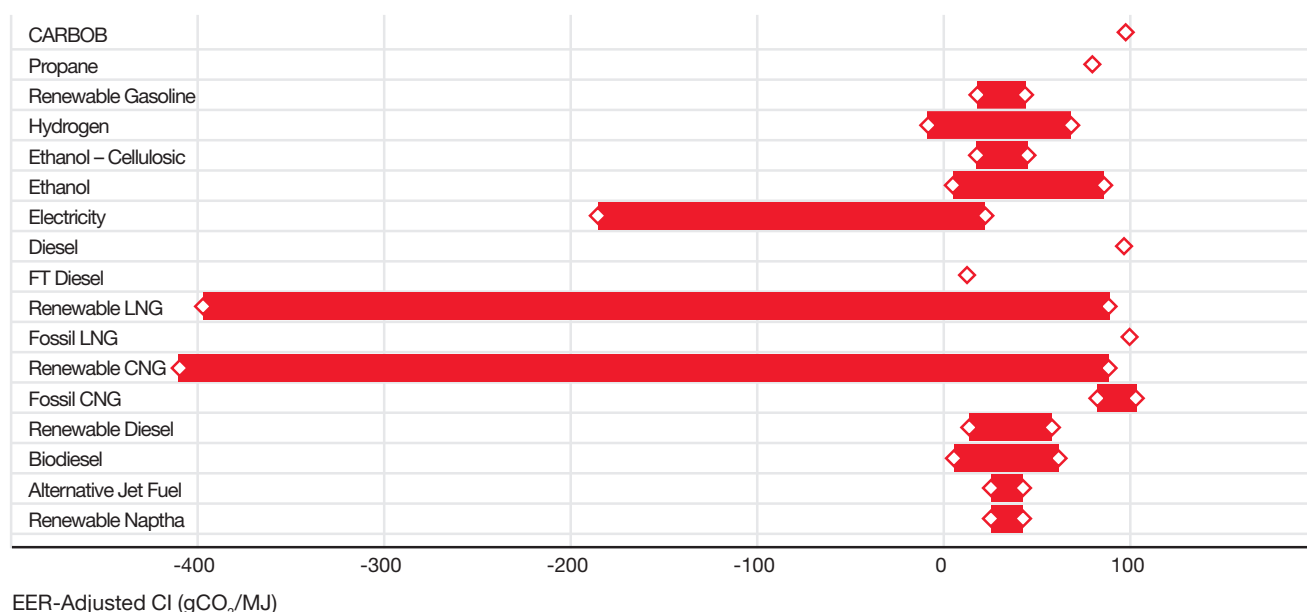
The Three-Way Catalyst exhaust treatment system used with natural gas engines is maintenance free. That means no active regeneration, no fluids, no filter cleaning and no filter replacements. This helps keep Total Cost of Operation down.

ATTAIN SUB-ZERO EMISSIONS WITH RENEWABLE NATURAL GAS

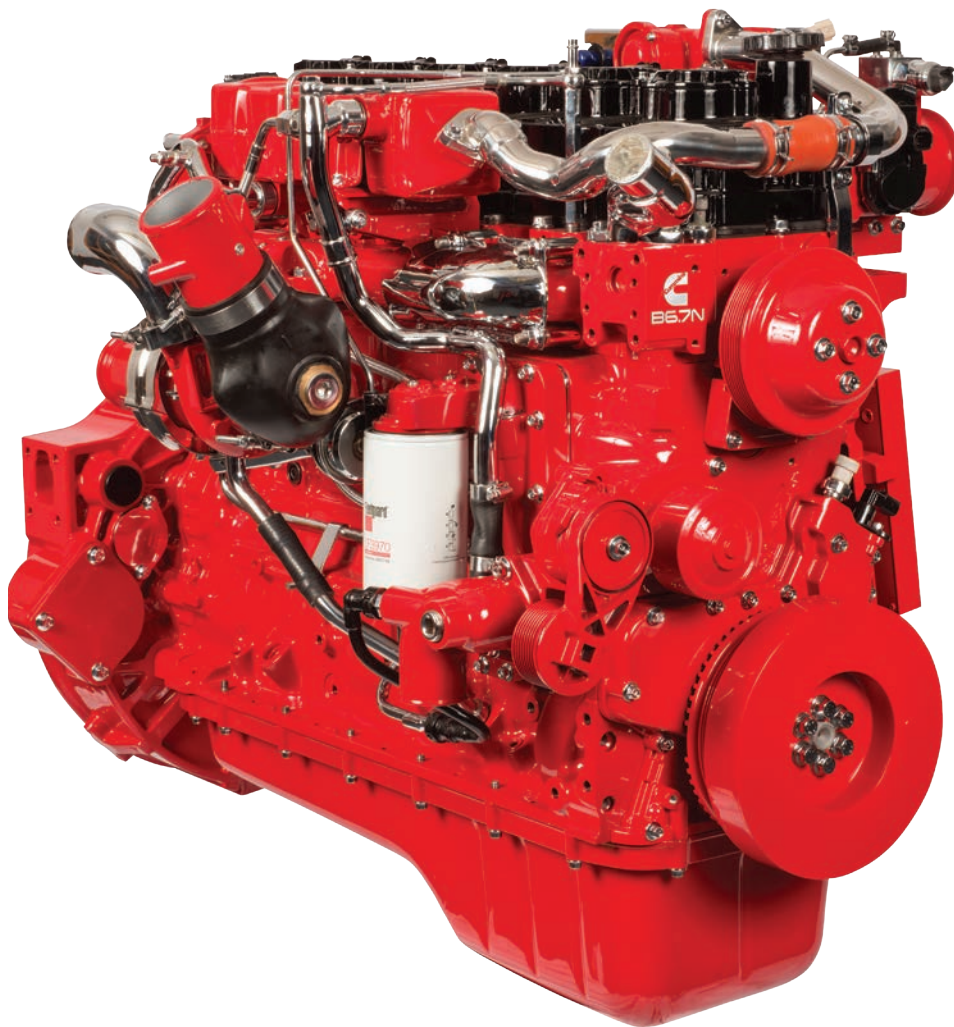
Using Renewable Natural Gas (RNG) from sources like wastewater treatment plants, landfill gas, digesters, food and green waste, and animal waste can significantly reduce a fleet's environmental impact. That's because producing RNG captures methane that would have otherwise been emitted into the atmosphere through natural decomposition.

Depending on the source of the methane, RNG can even result in sub-zero GHG emission levels.

CALIFORNIA AIR RESOURCES BOARD CARBON INTENSITY VALUES BY ENERGY SOURCE



Source: California Air Resources Board, April 2020



B6.7N

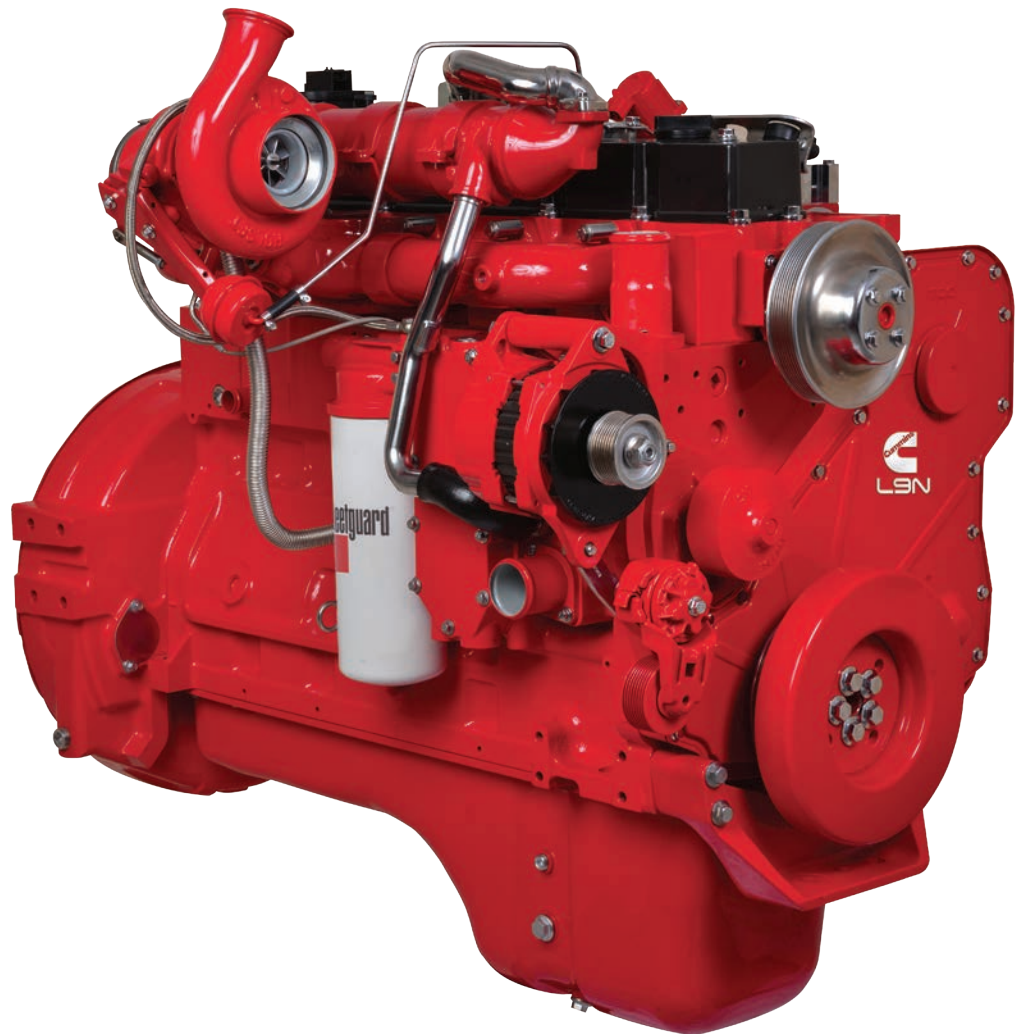


B6.7N SPECIFICATIONS

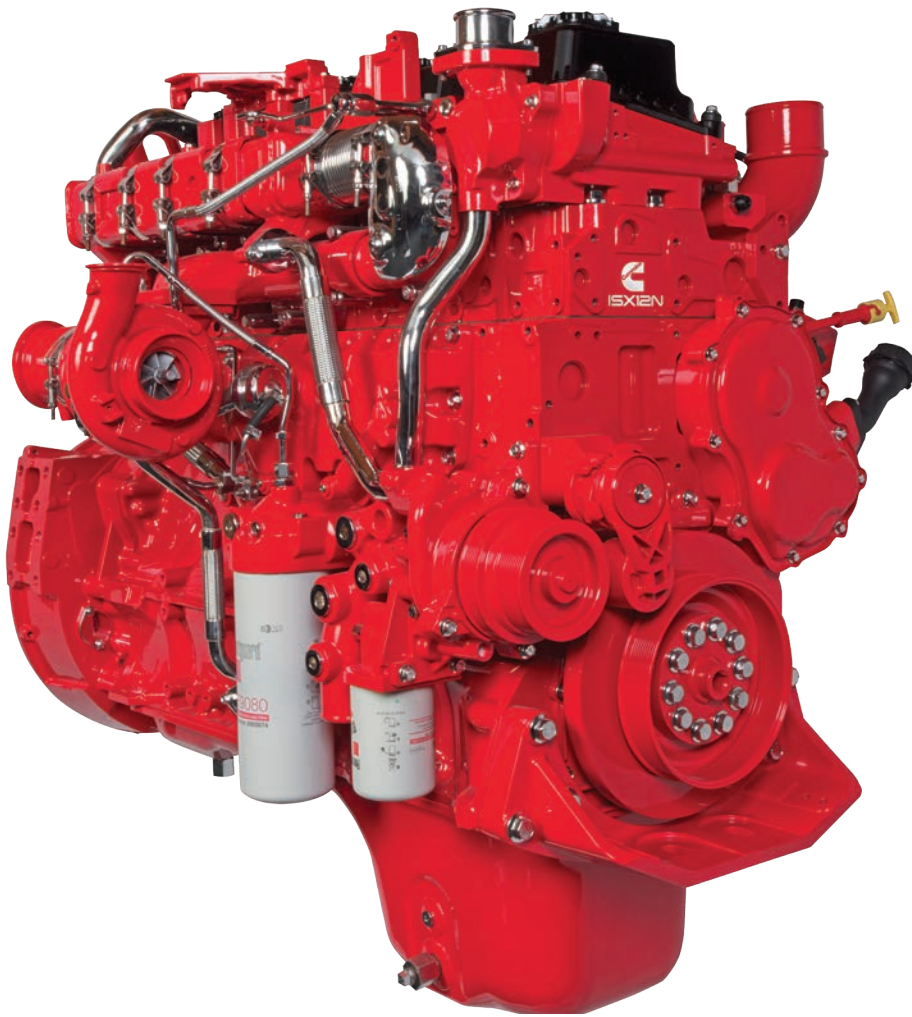
NOx emission	0.02 g/bhp-hr (90% below EPA)
Maximum horsepower	240 HP 179 kW
Peak torque	560 LB-FT 759 Nm
Governed speed	2630 RPM
Type	4-cycle, spark-ignited, in-line 6 cylinder, turbocharged, CAC
Engine displacement	409 CU IN 6.7 L
Number of cylinders	6
Operating cycles	4
Net weight (dry)	1,150 LB 522 KG
Fuel type	CNG/LNG/Biomethane
Aftertreatment	Three-Way Catalyst
Base warranty	2 years, unlimited miles
Maximum GVW	33,000 lbs.

L9N SPECIFICATIONS

NOx emission	0.02 g/bhp-hr (90% below EPA)
Maximum horsepower	320 HP 239 kW
Peak torque	1,000 LB-FT 1,356 Nm
Governed speed	2200 RPM
Type	4-cycle, spark-ignited, in-line 6 cylinder, turbocharged, CAC
Engine displacement	540 CU IN 8.9 Liters
Number of cylinders	6
Operating cycles	4
Net weight (dry)	1,625 LB 737 KG
Fuel type	CNG/LNG/Biomethane
Aftertreatment	Three-Way Catalyst
Base warranty	2 Years, 250,000 Miles (402,336 KM) Truck 2 Years, Unlimited Miles Transit/Shuttle
Maximum GVW	66,000 lbs.



L9N



ISX12N



ISX12N SPECIFICATIONS

NOx emission	0.02 g/bhp-hr (90% below EPA)
Maximum horsepower	400 HP 298 kW
Peak torque	1,450 LB-FT 1,966 Nm
Governed speed	2100 RPM
Type	4-cycle, spark-ignited, in-line 6 cylinder, turbocharged, CAC
Engine displacement	762 CU IN 11.9 L
Number of cylinders	6
Operating cycles	4
Net weight (dry)	2,650 LB 1,202 KG
Fuel type	CNG/LNG/Biomethane
Aftertreatment	Three-Way Catalyst
Base warranty	2 Years, 250,000 Miles (402,336 KM)
Maximum GVW	80,000 lbs.

TOTAL TRUST, BACKED IN WRITING

The true measure of the confidence a manufacturer has in the reliability and durability of its products is how well it backs them. The base warranty for all Cummins natural gas engines is the same as the Cummins diesel base platforms and covers virtually everything, including 100% parts and labor on warrantable failures*, not just for the engine, but for the aftertreatment system as well. Even consumables used in the repair are included. There's no deductible, and even towing is included.

*Covers defects in Cummins materials or factory workmanship.

KEEPING PEACE OF MIND, TOP OF MIND

Cummins engines are designed to provide dependable service well beyond the base warranty period, but for added peace of mind, we offer extended coverage plans with options on all registered parts and labor. Not only do the warranties cover major engine systems, but they also cover components.

A variety of extended coverage plans are available to meet specific needs and trade cycles. Contact your local Cummins distributor or dealer for details.

YOU CALL. WE CARE.

Cummins-powered vehicles are backed by the largest, most capable service and support network in North America, with over 3,700 locations to service your vehicle. Cummins-authorized technicians are fully trained on natural gas engines, with ready access to Genuine Cummins Parts and warranty support.

One call to 1-800-CUMMINS™ (1-800-286-6467), and a Cummins Care representative will help locate the nearest available and authorized facility, any time, day or night. You'll get great service no matter where you are.

For details, see your local Cummins distributor or dealer, or visit cummins.com.



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