

LET'S CLEAR THE AIR

Why MaxxForce[®] Advanced EGR is the best solution for 2010...and beyond



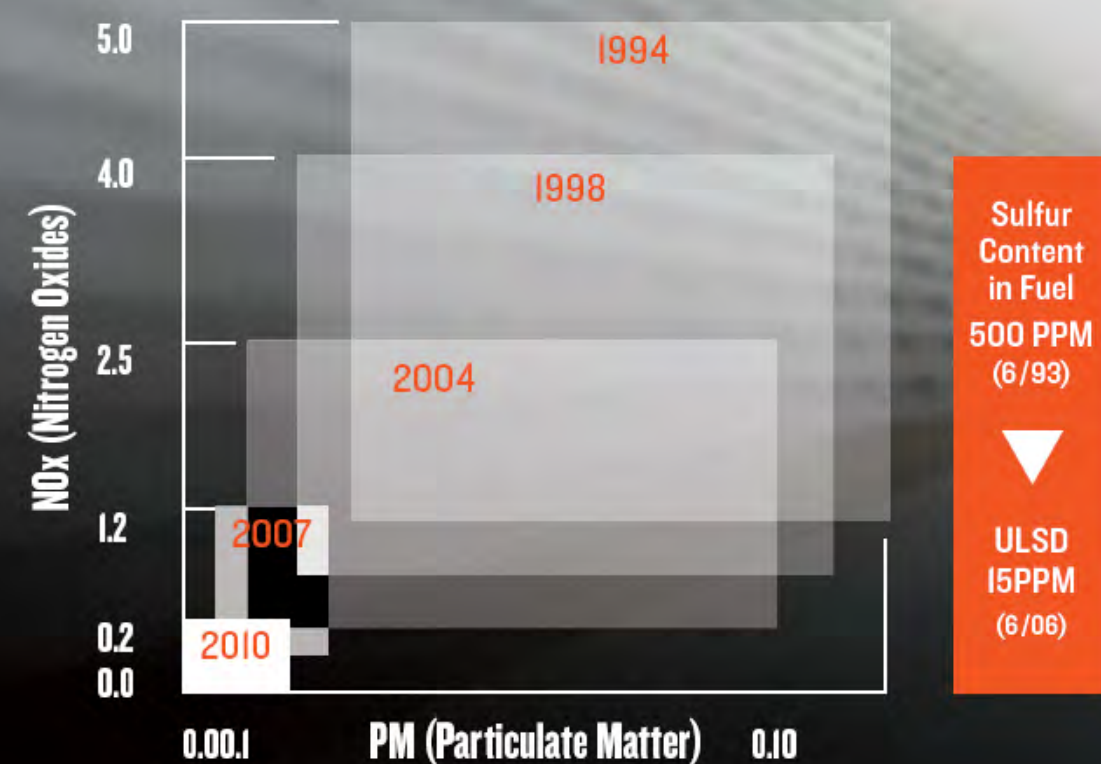
A NAVISTAR COMPANY



2010: Emissions requirements are tightening

Starting in 2010, the Environmental Protection Agency has mandated that truck emissions be reduced by 98%. This will bring emissions down near zero, and will significantly help reduce pollution in the atmosphere.

New vehicles will need to achieve a diesel exhaust emissions regulations limit of .2 NOx g/bhp-hr (grams per brake horsepower hour), down from a previously allowable 1.2.



EPA Regulations for NOx and PM have decreased by 98% since 1994.

WE THOUGHT OF CUSTOMERS FIRST

We believe that complying with 2010 emissions regulations should be our responsibility—not our customers'. So we didn't follow the rest of the industry and simply bolt on a complex after-treatment system. We created a sophisticated in-cylinder solution that takes the financial and operational burden off the customer. We call it MaxxForce® Advanced EGR. It's available in all our engines and vehicles. And it's ready to meet 2010 regulations with ease.



MAXXFORCE[®] ADVANCED EGR

The solution is in-cylinder

Because MaxxForce[®] Advanced EGR requires no after-treatment system that runs on an additional fluid like urea, there's no extra cost or hassle. Everything is handled in-cylinder, automatically—there's no change in how you operate your trucks.

HOW ADVANCED EGR MEETS THE NEW REGULATIONS

Unlike SCR, MaxxForce Advanced EGR can meet EPA 2010 in-cylinder using our proprietary emissions technologies.

Advanced fuel injection technology delivers fuel to the cylinder multiple times per cycle, making combustion more complete.

Our proprietary combustion bowl design breaks fuel into a finer mist, resulting in a more complete and cleaner burn.

Advanced air management featuring dual turbochargers allows the combustion in the cylinder to occur more slowly and at a lower temperature, generating less NOx.

Improved electronic calibration allows the engine controller to continuously calculate the optimum mix for maximum power and efficiency.

The result—a completely 2010 emissions compliant truck at the turn of a key.

ADVANTAGE OF MAXXFORCE ADVANCED EGR

FEATURE	BENEFIT TO YOU
No UREA to purchase or store	No worry about the uncertain availability or the price of urea which has been seen as high as \$12 per gallon
No UREA storage tanks to install	No costs for installation of tanks at your shop
No issues with urea temperature	No downtime when urea is frozen, nor driver hazards from fumes when hot. No worries about shelf-life.
No added after-treatment components	No worries about packaging the equipment around the truck body, no maintenance and no extra parts to stock
200-300 pounds less weight	More payload capacity
No additional training needed	No added costs and time for training and no chance of driver error that could cause downtime
No truck disablement if urea runs out	No worry that drivers will be sitting by the road instead of making deliveries
Stable trade-in value	More return on investment when you buy your next truck



THE SAVINGS MULTIPLY

Sure, MaxxForce® Advanced EGR means less hassle. But it also means an overall operating cost advantage when you put a MaxxForce Advanced EGR engine in our industry-leading aerodynamic trucks. The result—a savings of \$4,200 per truck per year. That's just good business sense.

\$4,200

Operating Savings Per Truck
WITH MAXXFORCE ADVANCED EGR

MAXXFORCE ADVANCED EGR vs SCR SOLUTION

FUEL		
Diesel Price Per Gallon	\$2.50	\$2.50
Urea Price Per Gallon	\$0	\$12.00
MPG	6.50	6.33
Gallons of Fuel Needed Annually	18,462	18,100
Urea Gallons Needed	0	362
WEIGHT		
Payload Penalty	75lbs	300lbs
MAINTENANCE		
Additional Days of Maintenance	0	1

Calculated savings should be used as an estimate only. Actual savings will vary. Calculation assumes the following: SCR solution MPG improvement of 2%, SCR solution urea dosage rate of 3%, SCR solution system weight increase of 300 lbs., Advanced EGR system weight increase of 75 lbs., and SCR solution maintenance cost increase of \$500 per day.



PROVEN FOR 9 MILLION very clean miles

International® has been working with EGR technology since 2004, staying ahead of the required emissions mandate and building cleaner engines longer than any other manufacturer. We've developed high-pressure fuel systems, air management systems and electronic calibrations that today build on 9 million miles of experience, and make MaxxForce® Advanced EGR ready for EPA 2010 compliance.

SCR systems developed in Europe are not equipped to meet the same standards as they will need for EPA 2010 standards.

SCR SYSTEMS DEVELOPED IN EUROPE DO NOT MEET EPA 2010 STANDARDS

- EPA standards are 13 times more strict than European standards
- New SCR technology will have to be engineered for this continent
- New complex diagnostics will have to be developed to meet EPA standards



SAY YES TO EGR

Clearly ready for the future

The EPA will undoubtedly continue to reduce emissions of greenhouse gases beyond .2 NOx g/bhp-hr. That means any solution must be able to be improved. Yet after years of experimenting with SCR, manufacturers in Europe are trending toward EGR as a more viable long-term answer.

ADVANCED EGR IS THE VIABLE LONG-TERM SOLUTION

SCR has plenty of drawbacks, not the least of which will be determining the reduced trade-in value of SCR-equipped trucks.

As emissions regulations tighten, vehicles with the proven technology of MaxxFORCE® Advanced EGR will maintain their resale value.

- MaxxFORCE Advanced EGR will continue to be refined and improved to meet even stricter regulations
- Manufacturers are working on non-urea solutions already
- MaxxFORCE Advanced EGR vehicles will hold their value longer

The solution for the future? MaxxFORCE Advanced EGR, without a doubt.



TURN THE KEY AND YOU'RE COMPLIANT

We chose MaxxFORCE Advanced EGR because it's better for our customers, but also because it's better for the environment. That's because there's no energy required for the production, distribution, infrastructure and manufacturing of SCR systems.

MaxxFORCE Advanced EGR is compliant from the moment you turn the key. With SCR, and its after-treatment approach, there are significant gaps in NOx control that allow trucks to emit NOx above EPA 2010 standards.

GAPS IN NOx CONTROL WITH SCR

- The engine is still allowed to operate dirty for 1000 miles or 20 hours without SCR if poor quality urea is detected.
- Tampering with the system allows up to 2000 miles or 40 hours of dirty operation without SCR.
- If urea is frozen, the vehicle can be operated dirty for 70 minutes without SCR.
- Certification testing does not require manufacturers to account for impact of SCR not functioning.

MAXXFORCE ADVANCED EGR. THE CLEAR CHOICE FOR 2010.