



# INTERNATIONAL Green Diesel Technology ®



## International Green Diesel School Buses

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**NAVISTAR**  
POWERING INGENUITY



# International Truck & Engine Corporation The Diesel Engine Technology Leader

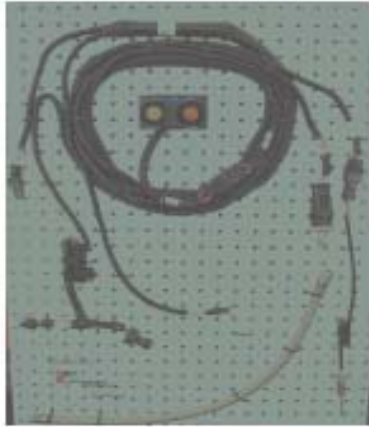
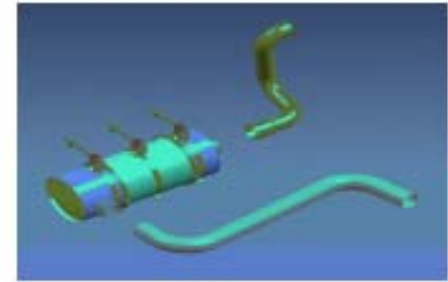
## ***Green Diesel Technology***® ***by International***

***Jim Gardner***

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***Manager, Sales and Marketing***



**GREEN DIESEL  
TECHNOLOGY<sup>®</sup>**  
by INTERNATIONAL





**Answer – A registered trademark of International Truck and Engine Corporation.**



## International Truck & Engine Corporation The Engine Technology Leader

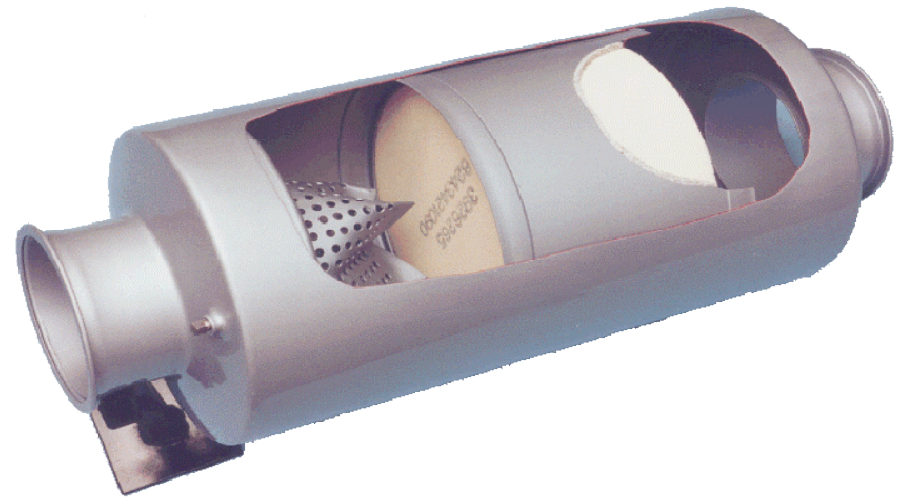
- **RETROFIT DEVICE:**

**–Any technology that allows reduction of Particulate Matter and/or NOx in diesel exhaust. This includes aftermarket devices, re-power and replacement.**



# *Diesel Oxidation Catalyst*

- **Particulate matter reduction of 20% to 30%**
- **Carbon monoxide (CO) and hydrocarbon (HC) reductions of up to 50%**
- **Harmful hydrocarbons (HC) are also reduced by up to 50%**
- **No specialized fuel required**
- **Recommended for older, mechanical engines built before 1994**

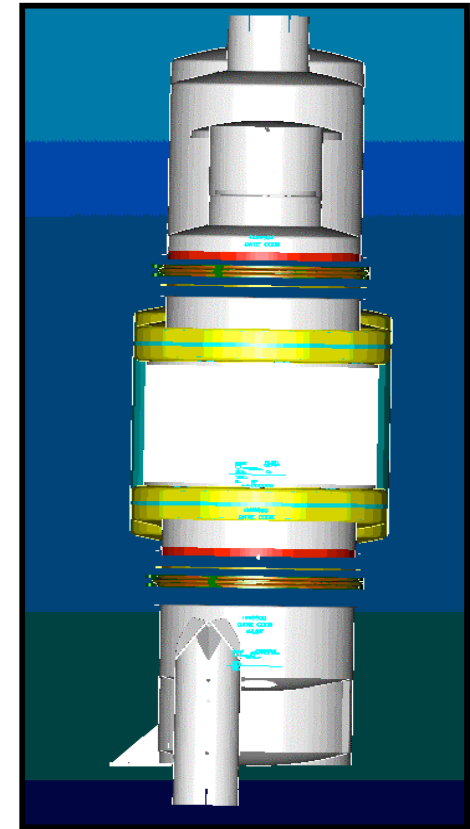




# Green Diesel Technology®

## Particulate Reactor ( ARB – Level II device )

- ARB verified level II device
- Good candidate for city buses, refuse hauling and military applications.
- 50 % minimum PM removal with flow through design.





# Diesel Particulate Filter



- **International® Diesel Particulate Filters (DPF) utilize the latest advancements in emission control technology from Engelhard, a world leader in emission technology and are OEM engineered and manufactured for quality and durability.**
- **Emission Reduction Performance:**
  - 70-98% reduction in particulate matter (PM) and visible smoke; depending on fuel quality
- 70-98% reduction in carbon monoxide (CO) and hydrocarbons (HC)
- Reduced odor and noise
- **DPFs from International are passive systems and allow oxidation of PM at normal operating temperatures.**
  - .
- **Warranty:**
- Diesel Particulate Filter kits are warranted for (5) five years or 100,000 miles from date of installation.



# Green Diesel Technology®

## International Closed Crankcase Ventilation System ( CCV )



- OEM designed system
- Sold as a complete kit
- Element life is 750 Hour Min.
- Easy installation and service
- Includes drain valve and hose in the kit.
- Verification pending with USA EPA.



# Active Catalyst Technology

## Therma Cat™



- Therma Cat™ Level III, 85%+ Particulate Reductions
  - Verification pending at CARB
  - Will be an active system with low temperature requirements.
- Distributed exclusively through authorized International and IC dealers worldwide.



# Green Diesel Technology <sup>®</sup>

- Engine recalibration – change timing.  
(2000-2003 years of International engines only)
- Reduction in combustion temperature.
- Reduction in NO<sub>x</sub> emissions by 25%.
- Reduction in PM Emissions two fold.



## Good

### Diesel Oxidation Catalyst (DOC)

G07-5035-A

#### 1 step

- DOC only required

#### Applications:

**Mechanical engines built before 1994 ( All – makes)**

#### Benefits:

**20 to 25% PM reduction**

## Better

### Particulate Filter (Retrofit Kit)

G07-5036-A

#### 2 step

- Particulate Filter required
- Ultra low sulfur fuel (15ppm)

#### Applications:

**Electronic engines built after 1994 (All Makes)**

#### Benefits:

**90 % plus PM reduction  
5 to10 % NOx reduction**

## Best

### Green Diesel Upgrade ( GDT )

G07-5701-A

#### 3 step

- Particulate Filter required
- Ultra-low sulfur fuel (15ppm)
- Engine Re-calibration

#### Applications:

**Electronic engines built 1999 to 2003 (International only)**

#### Benefits:

**Over 90 % PM reduction  
Minimum 25% NOx reduction**



# INTERNATIONAL Green Diesel Technology TM



## International Green Diesel Heavy Truck

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**NAVISTAR**  
POWERING INGENUITY



# Green Diesel Technology®

## Key Websites

[www.greendieseltechnology.com](http://www.greendieseltechnology.com)

[www.internationaldelivers.com](http://www.internationaldelivers.com)

Questions ?