



Leader in Passenger  
Transportation Solutions

# Info Zone



## Launch of the DD5/DD8™ engine

**AUTOBUS THOMAS, ALWAYS A STEP AHEAD!**

We already offer the best-in-class **C2**, and now  
Detroit introduces the **DD5 engine**.

**The revolution!**

### OFFER INNOVATIVE SOLUTIONS SUPPORTED BY THE DAIMLER GROUP

#### A Word from the President

The arrival of the **C2** on the school transportation scene bode well for the future for the industry. During the acquisition of Thomas Built Buses by Daimler in the early 2000s, it was clear that the future held continuous improvement and innovation at every level.

Global trends have a radical impact on the nature of mobility:

- Greater vehicle connectivity;
- Advances in self-driving vehicles;
- Development of digital mobility and transportation services.

All strategic actions taken by the Daimler Group centre around a single objective: the client!

Case in point: the launch of the **DD5 engine for the C2** and the **DD8 for the HDX**. Since 2013, this engine has proven its worth in diverse sectors of the heavy vehicle industry and is the solution to your needs. The manufacturer is so confident of this engine's performance that it comes with a **5-year, 160,000 km warranty for school vehicles**.

This completely supports our way of doing business and demonstrates our commitment to always exceed our customers' expectations.

**Bernard Dubé, President**

## The Detroit DD5 Engine

**THE MOST ADVANCED ENGINE  
TECHNOLOGIES ENGINEERED TODAY**

This next-generation mid-range engine delivers unsurpassed efficiency with exceptional endurance.

Daimler Truck Financial





## DD5 BENEFITS

### Performance

#### Meet your deadline every time

- Sturdy rear gear train and ribbed cast iron block minimizes noise vibration harshness (NVH)
- Simple fixed-geometry dual-stage turbo provides performance, efficiency and reliability
- Robust design provides B10 life of 640,000 km

### Economy

#### Smart, fuel-efficient design makes the most out of every litre

- Advanced common rail fuel system optimizes each injection event to minimize fuel consumption
- Piston and cylinder design reduces friction and provides optimal combustion
- Variable cam phasing technology for improved after-treatment system performance
- Variable speed fan and advanced cooling reduce fan on time, contributing to lower fuel consumption

### Serviceability

- **Maintenance intervals of 73,000 kilometres**
- Oil and fuel filters are positioned above the frame rails for easier, faster and cleaner filter changes
- Detroit™ Connect Virtual TechnicianSM remote diagnostic service for maximum uptime  
Talk to your representative.

### Compliance

- The DD5 is compliant with 2017 Greenhouse Gas (GES17) requirements  
**up to 2021 and 2028 to come**
- 2016 On-Board Diagnostics Certified

## SUPPORT PARTS AND SERVICE

**We are pleased to offer you high-quality parts and service to match this innovative, high-performance engine.**

### Training

We participate in a technician training program. One of our staff has already been certified, with another soon to be in November and a third in January.

In 2019, there will be training sessions available to you. Please consult our website and InfoZone newsletter for dates.

### Connected to our customers

Did you know that if you experience problems while on the road, you can access Detroit Connect for assistance? Detroit Connect acts as a virtual technician who will help you to identify the source of the problem and your geographic position, find the closest service centre and even confirm if the part required is in stock.

### Warranty

The manufacturer offers a 5-year, 160,000 km warranty, the best in the industry. We are ideally positioned to provide you with the service you would expect.

## SPECIFICATIONS AND MAINTENANCE

DD5 technical specifications	
Configuration	Inline 4
Cylinder Displacement	313 cu. in. (5.1 L)
Compression Ratio	17.6:1
Bore	4.33 in. (110 mm)
Stroke	5.3 in. (135 mm)
Weight (Dry)	1188 lb. (539 kg.)
Electronics	DDEC®
Service Fill (Oil & Filter Change)	18 qt. (17.5 L)
Horsepower Range	200-240
Torque Range	560-660

### POWER

DD5 Power Ratings	
200 HP at 2200 RPM	560 lb-ft at 1400 RPM
220 HP at 2200 RPM	560 lb-ft at 1400 RPM
240 HP at 2200 RPM	660 lb-ft at 1400 RPM

### STANDARD WARRANTY

Warranty Limits  
(whichever occurs first)

Repair Charge  
(paid by owner)

Item		Kilometre(s)	Parts	Labour
Engine	3 years	241,000 km commercial	No charge	No charge
	5 years	160,000 km school		

### Kilometre(s)

Item	Severe Duty	Short-Haul	Long-Haul
Engine Oil and Filter Change	56,000	73,000	80,000
Fuel Filter Change	56,000	73,000	80,000
Valve Lash Adjustment	Adjustment to 145,000 km or years, whichever comes first.		
Diesel Particulate Filter	321,000	321,000	321,000
	A check-engine light will illuminate when ash requires removal.		
DEF Pump Filter	Replace the filter every 3 years or 480,000 km, whichever occurs first.		

## The best in class C2

### ALWAYS INNOVATING

Over the years, the Saf-T-Liner® C2 school bus earned a reputation for:

- safety and efficiency
- remarkable handling
- exceptional driving ergonomics
- better visibility

### Innovation was never more intelligent

From our fleet-wide telematics system to our **PV360®; 360° camera**, every component of the Saf-T-Liner C2 represents the most advanced technology available.

### BUSWISE® Technologies: driving assistance

BusWise® Technologies is a **robust, technologically-advanced platform** that combines the latest innovations in safety, efficiency, serviceability and fleet management.

### Zonar System

Imagine being able to follow the location, speed, and fuel consumption of your buses while they are on the road.

This subscription-based service provides **real-time data** on a dozen vehicle functions, allowing you to manage your fleet better than ever before.



### Allison Transmission

The ultra-efficient Allison transmission for the C2 comes standard with Allison FuelSense®, a collection of shift schedules designed to maintain optimal engine speed as well as a dynamic shift point detection that continuously finds the ideal balance of fuel economy and performance for the duty cycle.

### Warranty

Thomas Built Buses offers the best warranty: **3 years, 80,000 km and with the least exclusions in the industry.** This warranty covers the chassis, electric and manual orders, safety equipment, assemblies and much more.

### Corrosion protection

Our FleetShield™ protection program offers three specialized, high-performance coatings designed **to protect the most vulnerable areas** of your buses, such as bumpers, stepwells and fuel tanks.



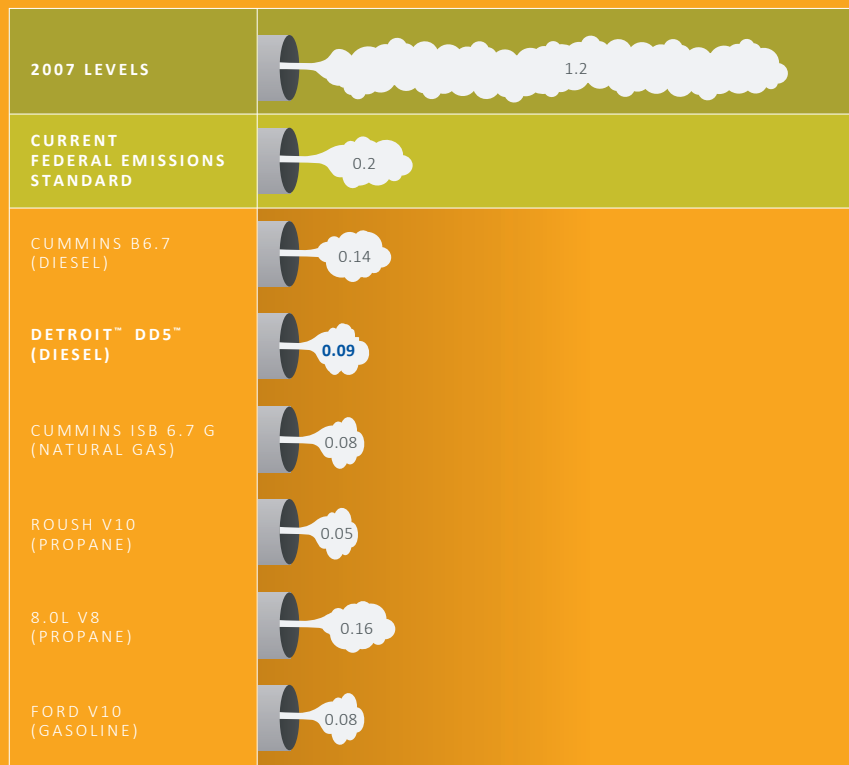
## DIESEL EMISSIONS

Graph 1

### NITROGEN OXIDE EMISSIONS (GRAMS PER BRAKE HP PER HOUR)

FACT:

All current engines emit 90% less emissions compared to 2006.



— NITROGEN OXIDE CAUSES ACID RAIN —

**Le DD5<sup>MC</sup>**  
***The most evolved engine  
in its category***

## DIESEL EMISSIONS

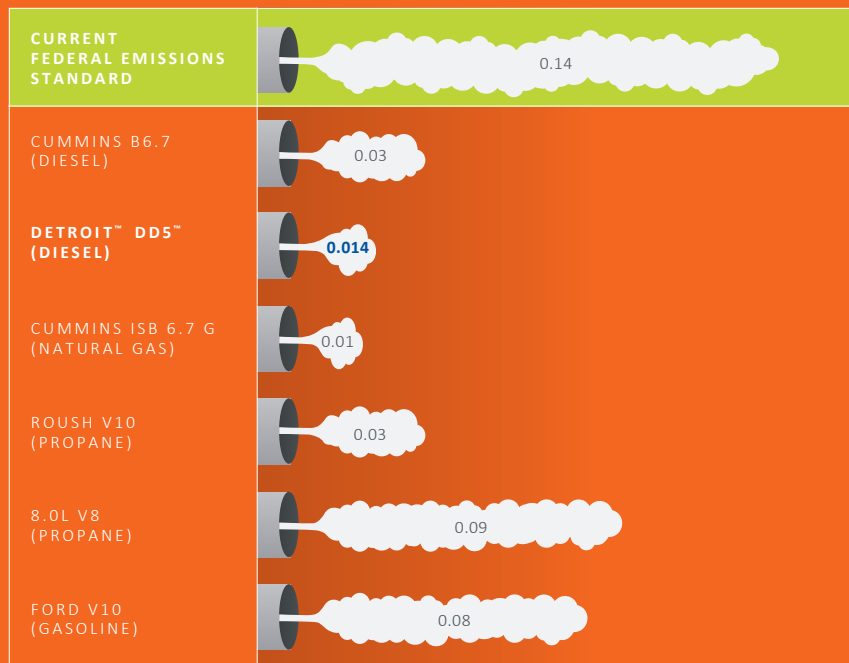
Graph 2

FACT:

Diesel emissions are now just as clean, if not cleaner, than other fuel types.

### NON-METHANE HYDROCARBON EMISSIONS

(GRAMS PER BRAKE HP PER HOUR)



– NON-METHANE HYDROCARBON CAUSES SMOG –





## DIESEL EMISSIONS

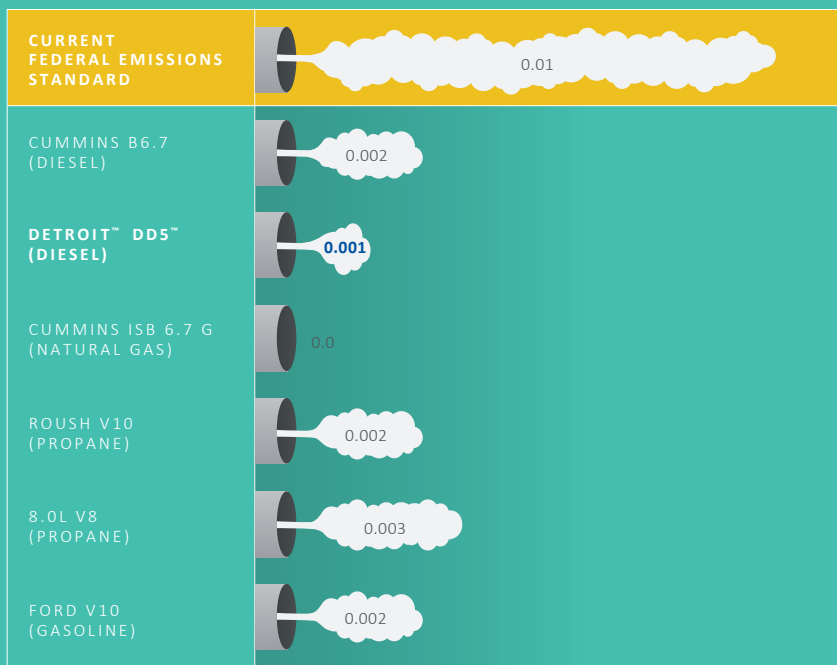
Graph 3

### PARTICULATE MATTER EMISSIONS

(GRAMS PER BRAKE HP PER HOUR)

FACT:

The difference in emissions from engine to engine is quite small.



– PARTICULATE MATTER IS A CARCINOGEN –



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## DIESEL EMISSIONS

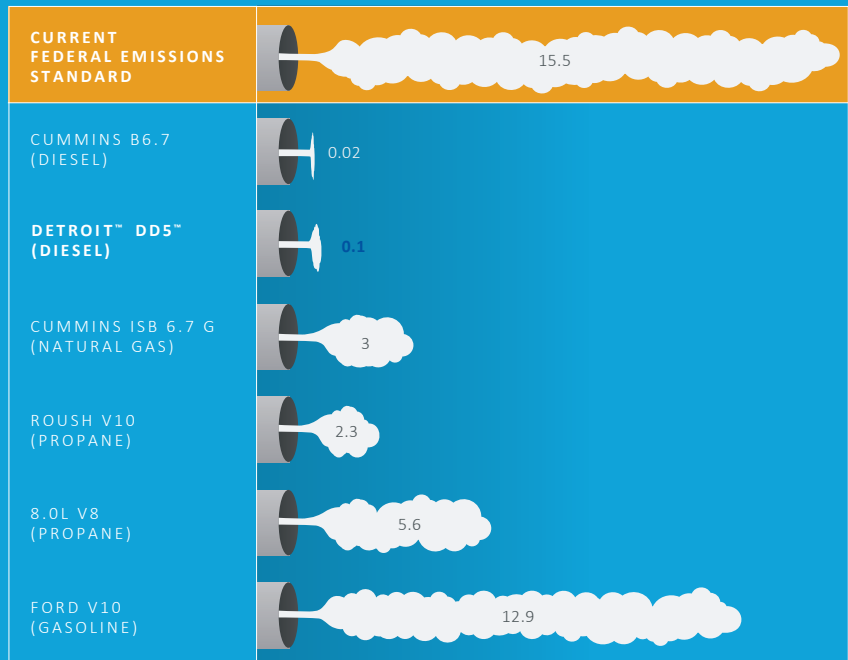
Graph 4

FACT:

Alternative fuel engines are not always the cleanest.

### CARBON MONOXIDE EMISSIONS

(GRAMS PER BRAKE HP PER HOUR)



- CARBON MONOXIDE IS A GREENHOUSE GAS -



## DIESEL EMISSIONS

Graph 5

FACT:

All engines currently meet or exceed EPA emissions regulations with further emissions improvements on the horizon.



Exit 175, Trans-Canada Highway 20  
2275 Canadien  
Drummondville, Quebec J2C 7V9  
Phone: (819) 474-2700  
Toll free: 1-800-567-0971  
[info@autobusthomas.com](mailto:info@autobusthomas.com)

[autobusthomas.com](http://autobusthomas.com)



Daimler Truck Financial