



**8.1L LPI Presentation
Medium Duty Truck**



- Headquartered in Georgetown, Texas
 - Established in 1993
 - Manufacturer of motor fuel dispensers and fueling infrastructure - LPG & E85
 - Provides fuel supply services and contracts
 - Owns or franchises 34 fueling locations in California, Arizona, Texas and Colorado.
 - Develops liquid propane fuel injection systems
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CLEANFUEL USA provides a complete alternative fuel solution

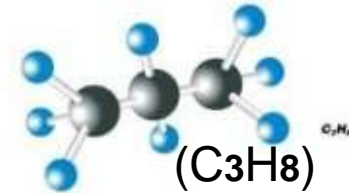
- Vehicle Fuel Systems
- Fueling Infrastructure
- Fuel Management
- Fuel



Market Factors Favor the Development of a Simple/Cost Effective Alternative Fuel Solution

- 2007 & 2010 Diesel Emission Standards
 - Increase in diesel engine prices
 - High cost of diesel fuel
 - Increased maintenance and operating costs
 - Decrease in diesel engine fuel economy
 - Health and global warming issues
 - Government alternative fuel incentives
 - Energy Security
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Propane Advantages



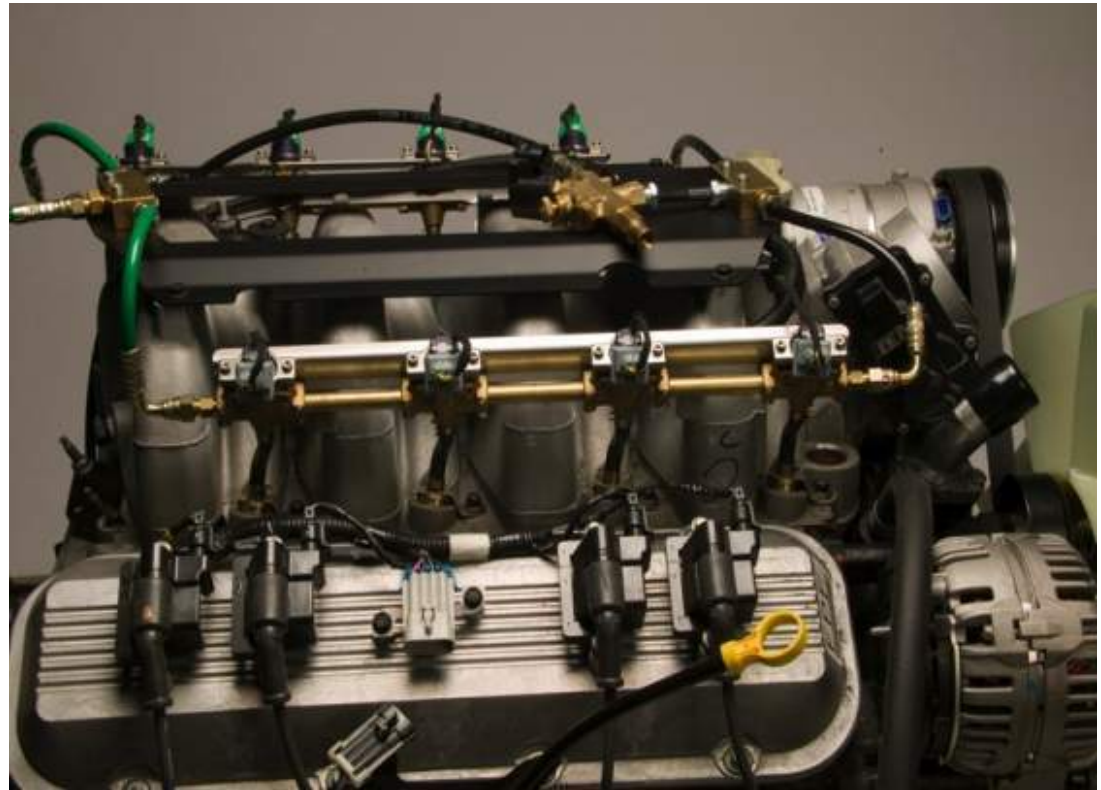
- Low cost and domestically produced alternative fuel
 - Non-toxic, burns cleanly & is not a ground contaminant
 - Abundant supply in the U.S.
 - 60% comes from natural gas & 40% from refining oil
 - Similar MPG and fuel fill rate as gasoline
 - Promote a green fleet image
 - Support Energy Independence
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Propane Advantages

- Propane is an approved alternative fuel listed in both the Clean Air Act of 1990 and the National Energy Policy Act of 1992 and 2005.
- It is currently the world's most proven, reliable and widely used alternative fuel, fueling more than 10 million vehicles internationally.
- Provides a clear environmental advantage. Compared to gasoline, propane yields 87% less smog-producing hydrocarbons, up to 90% less carbon monoxide, 12% less carbon dioxide, 50% less nitrogen oxide and 50% fewer toxins and other smog-producing emissions.
- Propane can play an important role in mitigating climate change, because it is among the lowest life-cycle greenhouse gas emissions of all commercially available fuels.
- The D.O.E. website states the low carbon and oil contamination characteristics of propane have resulted in documented engine life of up to two times that of gasoline engines.

The LPI System

- Clean-Low Emission
- Simple Design
- Economical
- Safe
- Supported



Clean – Low Emissions

2008

NOx Only

EPA & CARB – HD Diesel Standard

1.0

EPA & CARB – HD Gasoline Standard

0.2



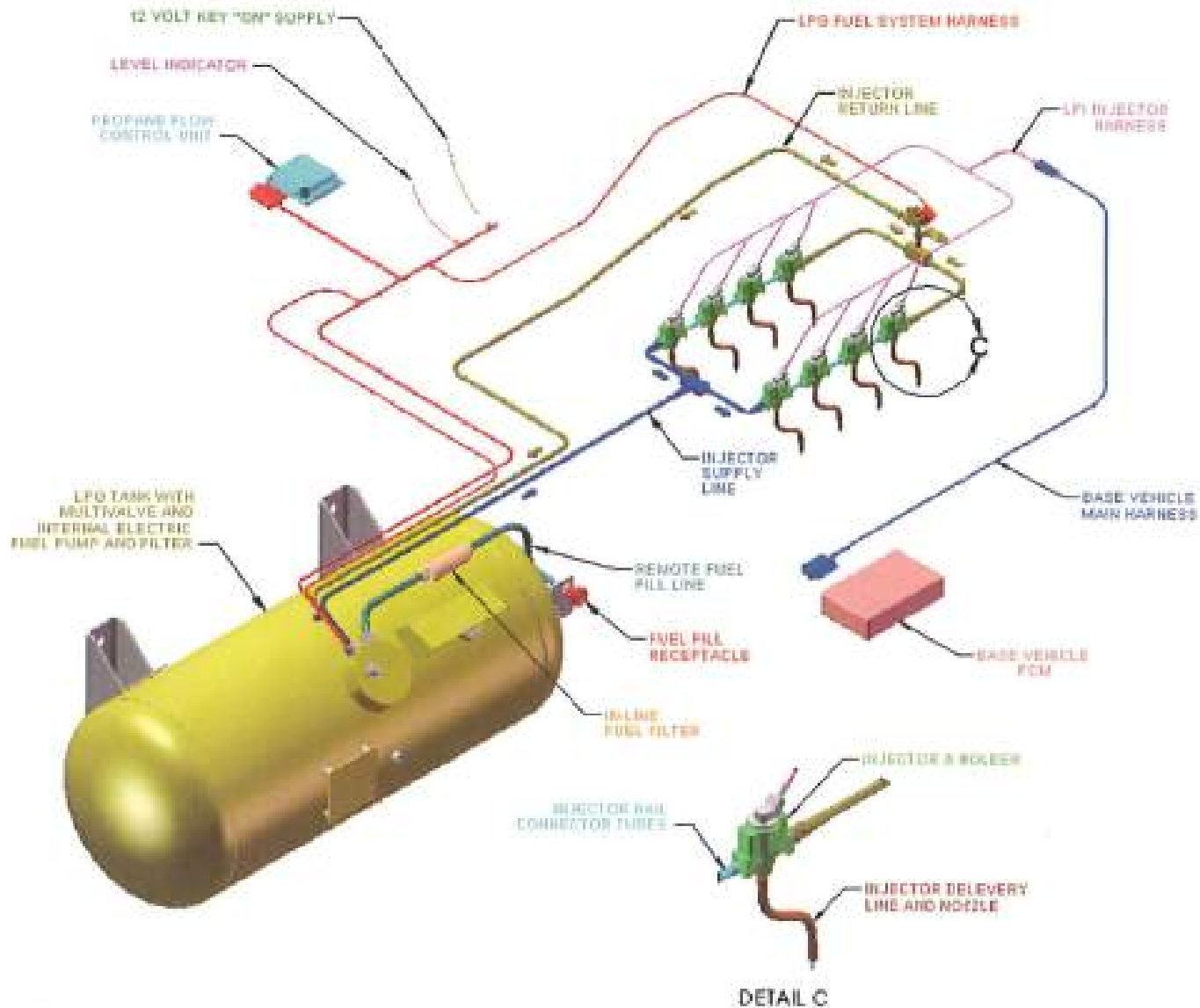
8.1L Certification Level

0.170

- Certified with EPA & CARB at Zero Particulate Matter
 - No need for DPF, cooled EGR or Urea Injection
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Simple Design

- Direct replacement of the OEM gasoline fuel system.
 - Liquid Propane Injection
 - Sequential Port Injected
 - Utilizes the GM P-59 Engine Control Unit
 - Developed & Certified by CFUSA at General Motors Proving Grounds in Millbrook, England.
 - Approximately 40,000 systems operating Worldwide
 - EPA/CARB Certified: April, 2006 C4500/C5500
 - Available 2003-2009 MY Vehicles
 - LPI system installed in Flint, Michigan by a recognized installer
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“LPI Delivers Propane to the Intake Port as a Liquid”

Benefit:

- Vaporization occurs at the intake port, cooling the air/fuel charge and increasing air/fuel density providing power better than the gasoline engine equivalent.
 - Vaporization creates a cooling effect reducing valve and upper cylinder temperatures and prolonging engine life.
 - Provides excellent cold weather start and go.
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“LPI control is integrated into the OEM computer”

Benefit:

- Proprietary programming optimizes fuel economy, performance and low emissions
 - Injector spray pattern is optimized as designed by the engine OEM.
 - OEM developed diagnostics remain intact with the LPI system.
 - Allows use of GM Tech II tool for diagnostics.
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“LPI utilizes bottom feed injector design”

Benefit:

- Provides a self cleaning and purging action.
 - Reduces contaminant build up.
 - Improves the service life of the injectors.
 - Maintains fuel economy, performance and low emissions.
 - Provides quiet operation.
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Safe

- Fuel tank is made of ¼” thick carbon steel.
- Tanks are 20 times more puncture resistant than a gasoline or diesel tank.
- Fuel flow is automatically shut-off in the event of a fuel line rupture.
- Critical valves are mounted below the tank shell perimeter providing superior protection from damage.
- Propane has the most narrow flammability range of any fossil fuel.
- Propane requires an ignition source of 940 degrees F to ignite. In contrast, gasoline will ignite with an ignition source of only 430 to 500 degrees F.
- In the rare event of a leak, propane will vaporize into the air and will not pool.



Service and Support...Warranty

- Match OEM engine warranty with a 2 year / unlimited mileage warranty
 - Available technical trainer
 - Technical manuals and CD provided
 - Technical service bulletins
 - Technical assistance hotline
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Supported by our current Master Dealer & Service Provider Network





8.1L Medium Duty Applications



Mike Perticone
Director of Sales and Marketing
CleanFUEL USA
(517) 416-3677
mfp@cleanfuelusa.com
www.cleanfuelusa.com
