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advanced gasoline turbocharged direct injection (GTDI) engine with no or limited degradation in vehicle level metrics. Demonstrate vehicle is capable of meeting Tier 2 Bin 2 emissions on FTP-75 cycle. MTU Objectives: Support Ford Motor

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Direct advanced gasoline
turbocharged direct injection (GTDI)

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Direct engine with no or limited degradation in vehicle level metrics. Demonstrate vehicle is capable of meeting Tier 3 SULEV30 emissions on FTP -75 cycle. MTU Objectives: Support Ford Motor Company in the research and development of advanced ignition

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advanced gasoline turbocharged direct injection (GTDI) engine with no or limited degradation in vehicle level metrics. Demonstrate vehicle is capable of meeting Tier 3 SULEV30 emissions on FTP -75 cycle. MTU

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Direct gasoline turbocharged direct injection (GTDI) engine with no or limited degradation in vehicle level metrics, while meeting Tier 2 Bin 2 emissions on FTP-75 cycle. Ford Motor Company has engineered a comprehensive suite of gasoline engine systems technologies to

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assembled a cross-

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Development of a 1-Liter Advanced
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Direct Injection 3-Cylinder Engine

2017-01-0632 In recent years, more attention has been focused on environment pollution and energy source issues. As a result, increasingly stringent fuel consumption and emission legislations have been implemented all over the world.

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Advanced turbocharging technology for gasoline engines is discussed including cold start emissions (catalyst light-off), high temperature materials, variable geometry

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Direct mechanisms and electrically assisted turbocharging.

Advanced Gasoline Engine

Turbocharging Technology for Fuel ...

Ford's Ecoboost V6 employs two knock sensors that instantly detect engine-killing detonation. According

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to Ford's advanced engine design manager Brett Hinds, these sensors, combined with...

Top 5 Turbocharger Tech Innovations:
The Truth about Fuel ...

Turbocharged direct injection certainly seems to be one of the most

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Direct Promising advanced gasoline technologies...it offers double digit fuel economy benefits at lower a cost lower cost than diesel or hybrid; it can meet future emissions standards with an inexpensive three-way catalyst; it can be applied across an entire engine portfolio; and it provides benefits

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Direct when operating on E85 in flex-fuel applications.

Advanced Turbocharged, Direct Injected Gasoline Engines ...

Gasoline direct injection, also known as petrol direct injection, is a mixture formation system for internal

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Direct combustion engines that run on gasoline, where fuel is injected into the combustion chamber. This is distinct from manifold fuel injection systems, which inject fuel into the intake manifold. The use of GDI can help increase engine efficiency and specific power output as well as

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Direct reduce exhaust emissions. The first GDI engine to reach production was introduced in 1925 for a low-compression

[Gasoline direct injection - Wikipedia](#)

That's why gasoline turbocharged direct injected engines are one of the

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Direct More popular choices coming over the next several years. Learn more after the jump. GTDI engines are relatively new and offer...

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Direct promise the highest potential to minimise fuel consumption. The first gasoline direct injection engines of the 'second generation' with spray-guided combustion systems were introduced to the market in 2006. These engines are able to operate in lean operation mode throughout a

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Advanced Direct Injection Combustion Engine Technologies ...

Garrett Gasoline Turbochargers Our innovative OEM turbo technologies for gasoline applications enhance vehicle performance, fuel economy,

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Direct driveability. We cover the full range of engine sizes from sub-1.0 litre economy 3-cylinder engines to premium and high-performance V8s and V12s.

Gas Turbo Technologies | Wastegate |
Variable Geometry ...

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Direct In this paper, the concept of E85 DI + gasoline PFI is assessed using a Ford Motor Company 3.5L turbocharged direct injection “EcoBoost” engine. A PFI system was added to the engine and CR was increased to 12:1. The amount of E85 required to avoid knock was quantified as a function of

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BMEP at various engine speeds on an engine dynamometer.

Optimal Use of E85 in a Turbocharged Direct Injection Engine

Advanced automotive technology, including turbochargers and gasoline direct injection, requires high-quality

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Direct motor oil to perform and last as designed. AMSOIL synthetic motor oil enables modern engines to achieve their full potential and service life.

The Effects of Turbochargers and GDI - AMSOIL

With GDI, the compression ratio in a

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Direct turbocharged engine can be higher than with port fuel injection (PFI) and engine efficiency is improved.

Turbochargers reduce fuel consumption indirectly, by enabling engine downsizing.

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