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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

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Ford Motor Company
in the research and
development of
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engine with no or

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limited degradation
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vehicle is capable of
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metrics. Demonstrate

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vehicle is capable of
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sedan using a
downsized, advanced
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injection (GTDI)
engine with no or

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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 achieve the project objectives, assembled a cross-

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engine with no or
limited degradation
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vehicle is capable of
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Injection 3-Cylinder
Engine 2017-01-0632
In recent years, more
attention has been
focused on
environment

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

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

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Top 5 Turbocharger Tech Innovations: The Truth about Fuel Direct

Turbocharged direct injection certainly seems to be one of the most promising advanced gasoline technologies...it offers double digit fuel economy benefits at lower a cost lower cost than

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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 when operating on E85 in flex-fuel applications.

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Turbocharged, Direct Injected Gasoline Engines ...

Gasoline direct injection, also known as petrol direct injection, is a mixture formation system for internal combustion engines that run on gasoline, where fuel is injected into the combustion chamber. This is

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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 reduce exhaust emissions. The first GDI engine to reach production was introduced in

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[Gasoline direct injection - Wikipedia](#)

That's why gasoline turbocharged direct injected engines are one of the more popular choices coming over the next several years. Learn more after the jump. GTDI engines are

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relatively new and
offer...
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Why gasoline
turbocharged direct
injected engines? |

Autoblog

direct injection
gasoline engines
promise the highest
potential to minimise
fuel consumption.

The first gasoline
direct injection

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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 wide
operating range.

Advanced Direct

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Injection Combustion Engine Technologies

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Turbochargers Our
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turbo technologies
for gasoline
applications enhance
vehicle performance,
fuel economy, and
driveability. We cover
the full range of
engine sizes from

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sub-1.0 litre economy
3-cylinder engines to
premium and high-
performance V8s and
V12s.

Gas Turbo
Technologies |
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Geometry ...

In this paper, the
concept of E85 DI +
gasoline PFI is
assessed using a Ford

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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 BMEP at various engine speeds on an engine

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dynamometer.

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Optimal Use of E85 in

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Direct Injection

Engine

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automotive

technology, including

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gasoline direct

injection, requires

high-quality motor

oil to perform and

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last as designed.
AMSOIL synthetic
motor oil enables
modern engines to
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potential and service
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The Effects of
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With GDI, the
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Gasoline 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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