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to achieve the project objectives, assembled a cross-

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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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Ford's Ecoboost V6 employs two knock sensors that instantly detect engine-killing detonation. According to Ford's advanced engine design manager Brett Hinds,

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these sensors,
combined with...

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

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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 when operating on E85 in flex-fuel applications.

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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

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

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introduced in 1925
for a low-compression

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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
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gasoline engines
promise the highest
potential to minimise
fuel consumption.

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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
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throughout a wide
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sub-1.0 litre economy
3-cylinder engines to
premium and high-
performance V8s and
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concept of E85 DI +
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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
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Advanced automotive technology, including turbochargers and gasoline direct injection, requires high-quality motor oil to perform and last as designed. AMSOIL

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synthetic motor oil
enables modern
engines to achieve
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With GDI, the
compression ratio in
a turbocharged
engine can be higher
than with port fuel

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injection (PFI) and engine efficiency is improved.

Turbochargers reduce fuel consumption indirectly, by enabling engine downsizing.

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