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The gasoline direct injection (GDI) engine particulate emission sources are assessed under cold start conditions: the fast idle and speed/load combinations representative of the 1<sup>st</sup> acceleration in the

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Direct Injection US FTP. The focus is on the accumulation mode particle number (PN) emission. The sources are non-fuel, combustion of the premixed charge, and liquid fuel film.

~~Assessment of Gasoline Direct Injection Engine~~

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The gasoline direct injection (GDI) technology is an important enabler for boosted downsize spark ignition engines which are employed to meet the increasingly stringent fuel economy requirements. The

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Direct Injection  
in-cylinder injection  
cools the charge,  
thereby increases  
the engine knock  
resistance and  
volumetric  
efficiency [3, 4].

~~Assessment of  
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Injection Engine  
Cold Start ...~~  
Direct Injection  
Compression



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2017-01-0699 The superior fuel economy of direct injection internal combustion engines (diesel and gasoline) is related to use of a high compression ratio to auto-ignite the fuel and the overall

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lean combustible  
mixture.

Direct Injection  
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Cold Start ...  
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Ignition (GDICI)  
engine combines  
the superior  
features of the two

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engines by  
increasing the  
compression ratio  
and use of gasoline  
as a fuel. One of the  
main...

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Cold ...~~

Results are  
presented from an

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Experimental study of the effects of engine speed and injection pressure transients on the cold start performance of a gasoline direct injection engine operating on iso-octane. The experiments are performed in an optically-accessible

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Single-cylinder  
research engine  
modified for  
gasoline direct  
injection operation.

By  
~~The Effects of  
Engine Speed and  
Injection Pressure~~

...

Gasoline direct  
injection (GDI)  
engines have a  
significantly better

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Direct Injection by  
fuel economy by  
approximately  
5 – 15%, with a  
lower CO<sub>2</sub>  
footprint, leading to  
its rapid and  
widespread  
adoption rather than  
port fuel injection  
(Brehob et al.,  
1998). GDI engine  
technology in SI  
engines has a  
higher brake

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Direct Injection  
thermal efficiency  
and power output  
than conventional  
port fuel injection  
(PFI) or multi-point  
injection ...

~~Particulate  
emissions from  
gasoline direct  
injection ...  
oil vapors rise into  
the intake manifold  
through open intake~~

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Direct Injection valves. As the vapors cool, they form carbon deposits on the back face of the intake valves and the throttle plate and throat of the throttle body. In an MFI system, the detergents in the fuel constantly cleans the backside of the intake valves.



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~~Carbon buildup in  
Gasoline Direct  
Injection engines ...~~

Direct fuel injection  
is a very old idea.

Until the early  
2000s, direct  
injection was  
mainly associated  
with diesel engines.  
However, gasoline  
direct injection  
isn ' t a new idea.

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Direct Injection

The first engine to

use direct injection

was a V8 aircraft

engine created by

Leon Levavasseur

in 1902 – a hundred

years before GDI

became widely used

in passenger cars.

~~EXPLAINED:~~

~~Gasoline Direct~~

~~Injection (GDI) –~~

~~Still Running ...~~

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

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Direct Injection  
injection systems,  
which inject fuel  
into the intake  
manifold.. The use  
of GDI can help  
increase engine  
efficiency and  
specific power ...

~~Gasoline direct  
injection—  
Wikipedia~~  
Gasoline Direct

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Injection or GDI has seen rapid adoption by the automotive industry over the last several years in lieu of multipoint fuel injection systems due to advantages in fuel efficiency and reduced emission levels. However, now that GDI has been in engines for

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several years,  
engine builders are  
seeing issues  
caused by these  
systems as well as  
many facts and  
fictions surrounding  
why ...

~~Solving Gasoline  
Direct Injection  
Issues: The facts  
and ...  
gasoline-direct-~~

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vehicle and their  
ageing in an envir  
onmental chamber  
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Longyi Shao 1 ,  
Wenbin Zhang 3 ,  
Jianfei Peng 4 , W  
enhua Wang 1 ,  
Shijin Shuai 3 , Min  
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~~(PDF) Morphology  
and size of the~~

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particles emitted  
from a ...  
Engine Cold  
Start Particle Emissions  
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Engines during  
Engine Start-Up  
(Cranking)  
2019-01-1182.  
Engine start-up  
(cranking) can be  
an important source  
of particle  
emissions from



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vehicles. With the penetration of GDI vehicles in the global vehicle fleet, it is important to analyze and understand the contribution of start-up particle ...

~~Particle Emissions  
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While piston shape was originally a larger concern with direct injection, we've had great results with a traditional-style piston in our twin-turbo 2016 Camaro SS. On a stock LT1 piston, the "bowl" ...

~~Here is a Closer  
Look at Direct~~

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I know some engines are also developing valve deposit problems. I also wonder if manufacturers have looked at the long term effect of direct injection in cold climates. If gas is getting into the oil mainly during warm

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Direct Injection  
up each day, then  
100,000 miles on a  
test track may yield  
different results  
from 180 cold  
starts over the span  
of a 6 month. A.

~~CAR DOCTOR~~

~~Q&A: Are Direct  
Injection Engines  
Allow Gas ...~~

[0002] The design  
of the high pressure

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fuel pump for such common rail direct injection systems requires a number of trade-offs. For example, whereas the maximum required fuel delivery rate while the vehicle is under way can readily be accomplished with a modestly sized pump, the demands

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for a cold engine  
start require a  
delivery rate on the  
order of three times  
higher than the  
maximum needed  
for travel.

~~Flow intensifier for  
cold starting  
gasoline direct ...~~  
Port injection will  
be used for cold  
starts and low loads

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whereas the direct injection system will take over once the engine has reached operating temperature or is under high load. Although it is a more complex system (nothing gets simpler these days) the advantages are obvious.

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EcoBoost F-150  
Engine Cold  
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American Trucks

First of all, under the cold start condition, when the temperatures of engine cylinder, oil and coolant are lower than fully warm operating conditions, the fuel



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Direct injection into the cold cylinder walls results in formation of fuel films with low evaporation.

~~Comparative study on combustion and thermodynamics ...~~

Gasoline engines.

An advantage of indirect injection gasoline engines

Download Ebook Gasoline versus direct injection gasoline engines is that deposits on intake valves from the crankcase ventilation system are washed by the fuel.. Diesel engines Overview. The purpose of the divided combustion chamber is to speed up the combustion

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