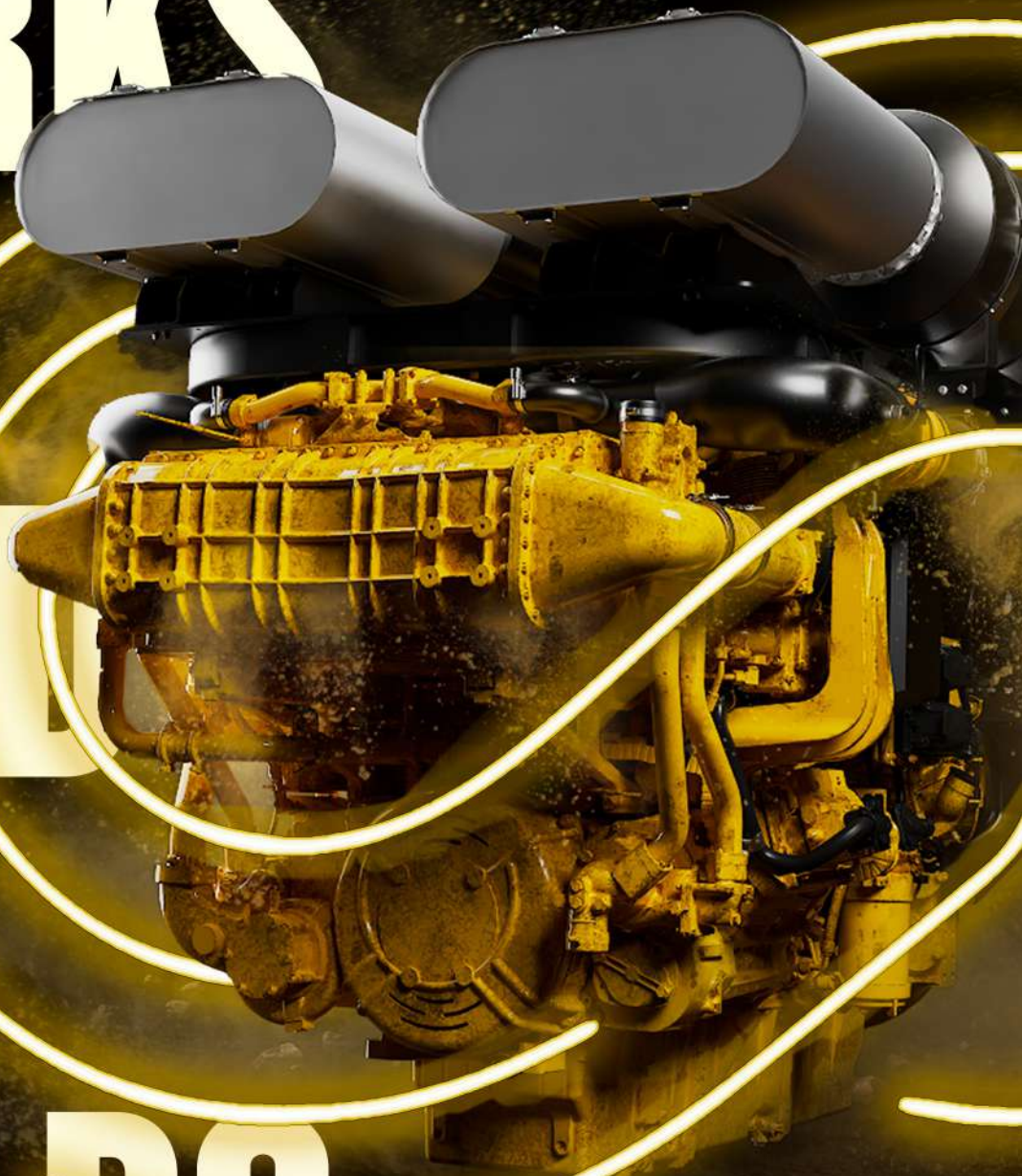
DGB WORKS AS HARD AS YOU DO.

SPECIFICALLY DESIGNED FOR
WELL SERVICE & DRILLING APPLICATIONS



شركة الزاهد للتراكتورات
ZAHID TRACTOR
CAT®

PERFORMANCE
WITH STAYING POWER.

OVER TEN YEARS OF RELIABILITY, FLEXIBILITY & PERFORMANCE.

You've got to be tough to last more than a decade in this industry, and that's just what the Cat® Dynamic Gas Blending (DGB) technology has proven to be. Under its layers of dust, dirt and grime, there's an engine that's still got more life to it.

FROM DAY ONE

In 2012, when diesel fuel costs were sky high, and customers were looking for relief, we launched our initial DGB solution. The results spoke for themselves. Through the combined knowledge of our engineering experts sharing insights across industries, we developed a true game-changer for oil and gas. The Cat® DGB leveraged innovative capabilities, like automatic fuel blending—delivering intelligent, on-the-fly adjustments that had never been seen before.

Today, DGB has the incredible capacity to work with and blend a wide range of natural gas fuel qualities to help offset the cost of diesel, without compromising on performance.





BUILT TO BE BEST

EACH ITERATION OF THE DGB BRINGS MORE CAPABILITIES TO MORE EQUIPMENT ACROSS INDUSTRIES

- Uses gas when available, and seamlessly reverts to diesel-only when unavailable
- Continuously optimizes gas substitution while maintaining diesel power and transient performance
- Designed to handle a wide range of fuel quality
- Automatically adjusts to changing gas quality
- All engines are factory or dealer tested prior to going to the field
- Closed-loop feedback continuously monitors output and combustion characteristics to maintain U.S. EPA emission standards

DGB HISTORY

2011



2012

Oil & Gas: Drilling



2013

Oil & Gas: Well Services

2014

2012 – 2013: The first DGB kits enter the market for drilling and well services. Peak diesel substitution achieved 70%



Mining

2015

2016

Port cylinder injectors used in mining improves DGB functionality and enables the ability to optimize substitution per cylinder.

2017

2018

85% peak diesel displacement achieved in new Well Service T4 DGB



Oil & Gas: Well Services

2019

2020



Oil & Gas: Drilling

2024

Port injected technology is introduced to drilling with the DGB Gen 2 Kit.

2025

A TRUE MVP IN THE FIELD

DRILLING & WELL SERVICE APPLICATIONS

MAXIMIZE THE VALUE OF YOUR DGB

+ Achieve an average of 70% diesel displacement and up to 85% peak displacement for well services
+ Achieve an average of 70% diesel displacement and up to 85% peak displacement for drilling
+ For both drilling and well servicing, DGB kits let you utilize your existing engines – avoiding costly whole-engine replacements

LEVERAGE FUEL FLEXIBILITY

+ Have peace of mind, knowing DGB will revert to 100% diesel in the event you lose access to natural gas

OPTIMIZE YOUR PERFORMANCE

+ DGB reduces costs while performing the same work as non-DGB engines
+ Auto fuel detection helps minimize downtime by automatically adjusting to current fuel quality without having to shut down your engine—making it easier to rely on fuels like field gas, where quality varies drastically

INCREASE SAFETY & REDUCE ENVIROMENTAL IMPACT

+ Integrated controls come with customizable shutdown and alarm features—helping to simplify safe operation
+ It uses a closed-loop feedback to monitor combustion characteristics—allowing you to adjust for poor fuel quality and avoid malfunctions
+ Reduce GHG emissions as compared to diesel combustion

WELL SERVICES

TECHNOLOGY ADVANTAGES THAT KEEP YOU GOING

With the power of DGB, you can reduce fuel cost demands for your well service equipment, while also helping you respond to the carbon related objectives of your clients.

TIER 4 COMPLIANT

The Cat® 3512E DGB T4 is one of our well services engines that help operators and customers maintain the production they're used to without losing sight of emissions regulations industry wide. The DGB is built to help customers meet their climate-related objectives, while also meeting the U.S. EPA Tier 4 emission standard.

A STANDOUT IN WELL SERVICES

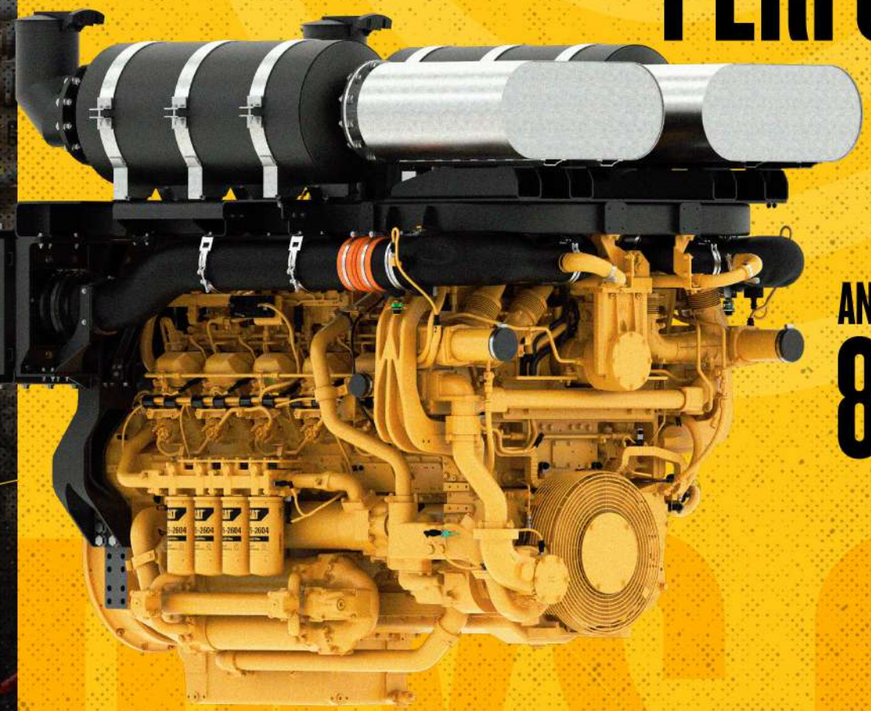
With DGB, you get more performance from a single package – the high load capacity and quick start of a typical diesel engine, with the lower GHG emissions and more economical performance of natural gas models. A Cat DGB engine doesn't make you choose. It helps you save time in the field and save costs on fuel—all to help increase your well service operation's efficiency, performance and profitability.

DGB PROVIDES FUEL SAVINGS

HARDWORK

WITH AN AVERAGE OF **70%** DIESEL DISPLACEMENT

SAME POWERFUL PERFORMANCE



AND UP TO **85%** PEAK DIESEL DISPLACEMENT

PAX OF

DRILLING

MADE FOR COST-SAVING FLEET CONVERSIONS

Your existing fleet of engines powering your drilling operations may have the power they need, but they're having a bigger negative effect on your bottom line. That's why we built DGB kits that allow you to retrofit your existing fleet – to help you power ahead with the equipment already on hand.

READY TO ROCK

Our DGB kits are built to integrate right into your existing diesel-powered fleet—providing more fuel flexibility. That means you can realize the savings that come with natural gas fueling without having to invest in entirely new engines.



DGB KEEPS DRILLERS GOING

Beyond the efficiencies provided by the overall reduction on diesel use, the DGB also maintains performance for longer. Through its integrated diagnostic capabilities, you can identify and troubleshoot problems more quickly – allowing you to take action to avoid costly failures. On top of that, the addition of the DGB doesn't affect your regular service intervals, meaning you can stick to your schedule while saving money on maintenance and diesel costs over time.

WE'VE GOT MORE COVERED.

WITH DGB, BOTH WELL SERVICE AND DRILLING OPERATIONS NOW HAVE A SOLUTION TO MAXIMIZE SAVINGS AND REDUCE EMISSIONS.



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