

# THE EVOLUTION OF A LEGEND. THE CAT® G3600

VISIT  
[CAT.COM/G3600](https://cat.com/g3600)  
TO LEARN MORE

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# TRUSTED FOR DECADES. UPGRADED FOR TODAY.

"The Cat® G3600 gas compression engine is known for dependable power, and Caterpillar is known for longevity in the Oil & Gas industry. We understand that no matter the current climate, Caterpillar can help us weather the storm."

-Ray Purtzer, VP Asset Management at Archrock

# THROUGH THE TEST OF TIME.

**SINCE ITS INTRODUCTION IN 1991,** the G3600 platform has proven itself as a powerful and reliable standard for gas compression applications. Its performance took a giant leap in 2015 with the introduction of the G3600 A4 engine.

The best testament to the effectiveness of an engine is its longevity for our customers, and how long they keep it in their fleet. That's why durability has always been a cornerstone of the G3600 – boasting field-proven results that have earned it a reputation for reliability across the industry.

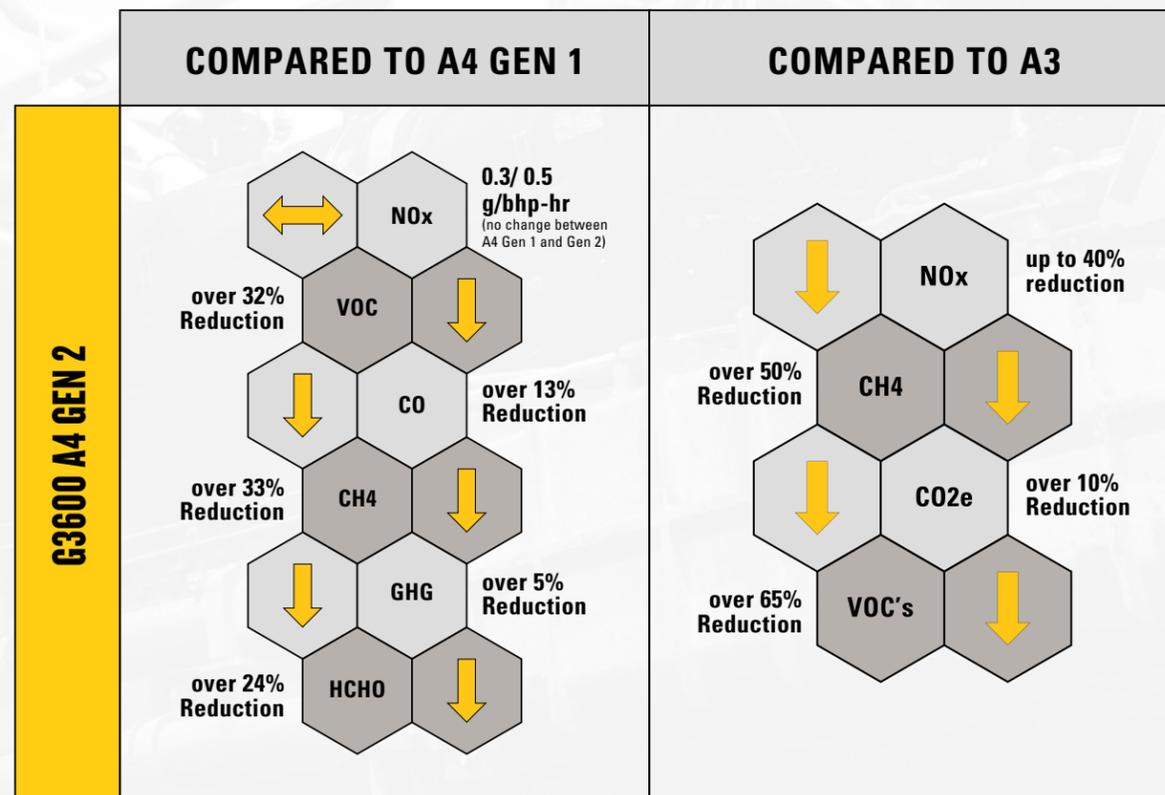
	G3600 A3 and previous models	G3600 A4
ACTIVE UNITS	5,000+	3,950+
TOTAL HOURS	409M+	91M+

\*Figure Reported as of October 2024



# MORE POWER. FEWER EMISSIONS. FROM THE FACTORY

Each upgrade of the G3600 is more than the sheer power and usability improvements they deliver. They have also reflected the influences of shifting industry and governmental standards that affect the way we all work. The Cat G3600 A4 Gen 2 now includes the Cat® Closed Crankcase Ventilation System (CCV), taking this legendary gas compression engine to a whole new level.



Conditions: same power level, 85 MN, 905 BTU/scf, 100% load, 77 F ambient, 500 ft altitude  
 Figures based on Caterpillar lab performance testing that can be referenced in Gas Engine Rating

Compared to A4 Gen 1  
 Metrics based on engine exhaust emissions; crankcase emissions not included

## NEXT GEN UPGRADES

### CAT CCV

- Eliminates crankcase emissions
- Reduces up to 20% methane emissions from gas engine\*

### TURBOCHARGER

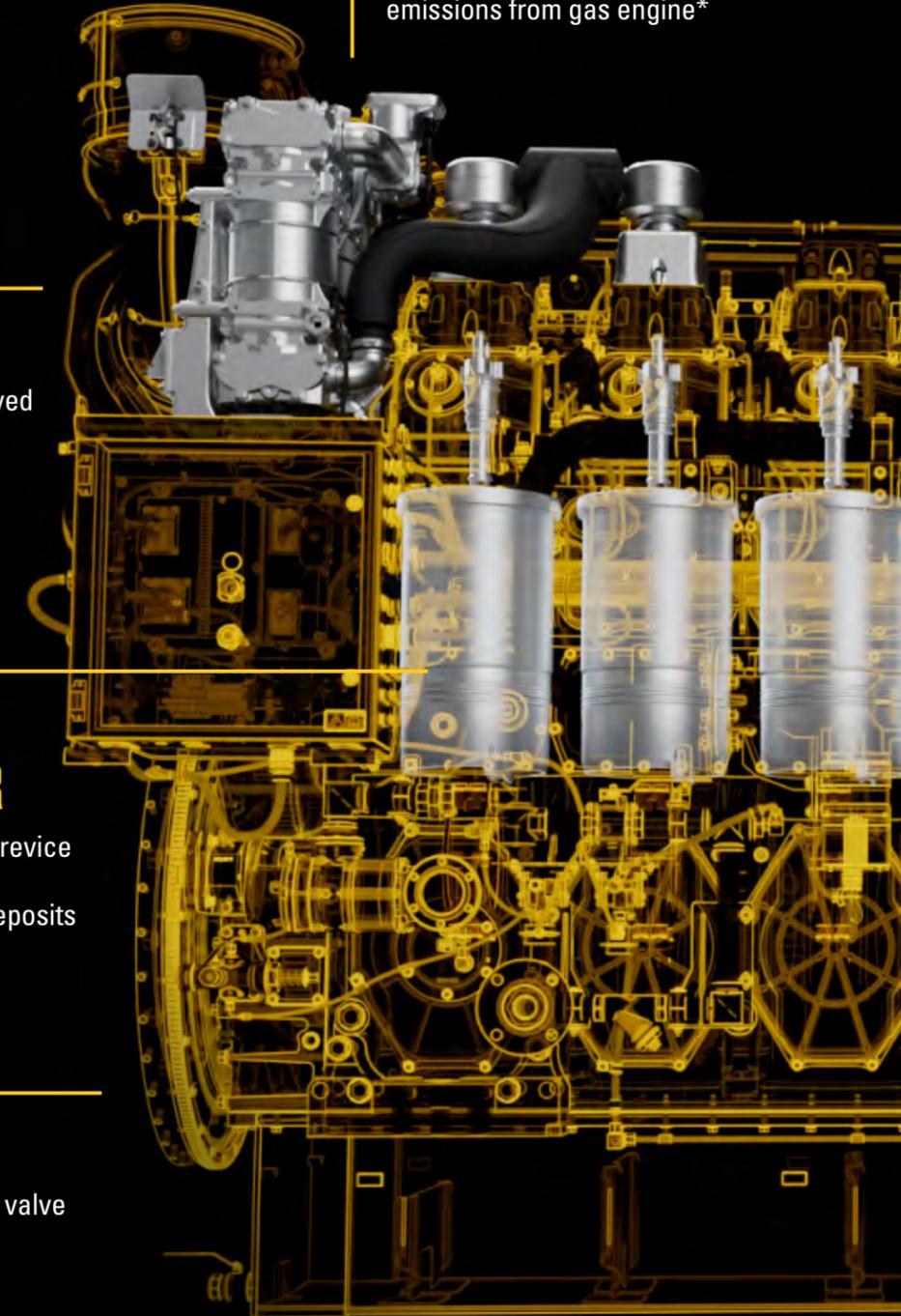
- This optional addition enables improved altitude with 10% uprate rating
- Includes surge protection design

### PISTON, RINGS, LINER & PRECHAMBER

- Lowers emissions through reduced crevice volumes and improved combustion
- Cuffed liner reduces risk of carbon deposits

### G3616 FUEL SYSTEM

- TecJet system replaces F-Series fuel valve
- Commonality across G3600 platform



\* Using OEM data, Reflect G3608 A4, 0.3 g/bhp-hr NOx, 8760 hours/year, 24 hours labor hours x 2 technicians to install CCV system & package changes, service cost.

# OPTIMIZING EXISTING ASSETS

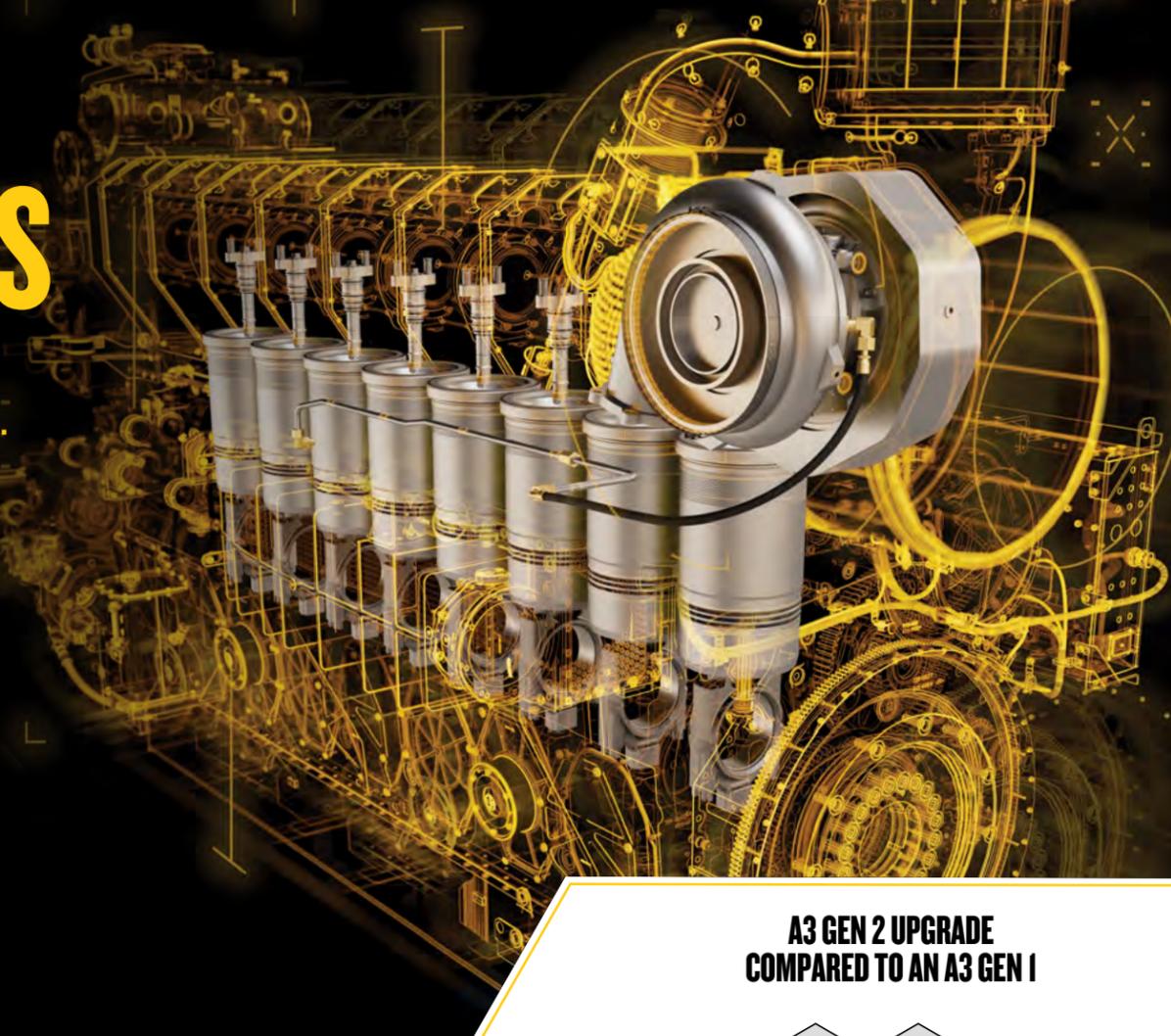
## GEN 2 UPGRADE KITS

With over 8,500 G3600 engines in the field, **it's clear why they are considered the foundation of gas compression operations.** Now, it's time for the next evolution of your engine with the latest Cat® upgrade options.

### SAME NAME. NEXT LEVEL UPGRADE.

**DON'T SETTLE** when it comes to your operation's long-term needs, because the engine you've trusted for the past three decades is ready for an upgrade.

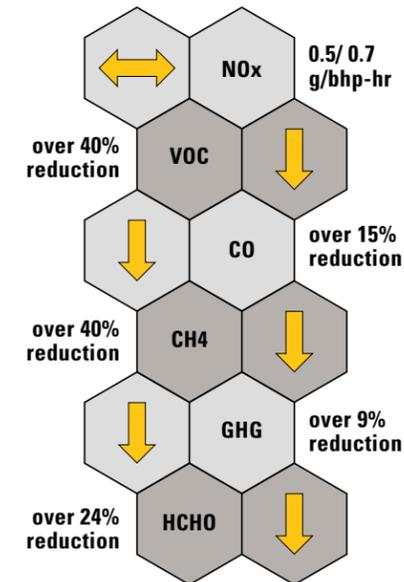
**UNLOCK THE FULL POTENTIAL** of your G3600 A3 or A4 Gen 1 models to safeguard your investment and help it match the performance expectations of today – all without breaking the bank. For instance, when Gen 2 Kits are combined with a Cat CCV system, engine methane emissions are reduced by up to 50% compared to previous models. That's why it makes sense to use solutions that were developed with your Cat engine in mind.



**GET A CLOSER  
LOOK AT THE  
GEN 2 KIT**



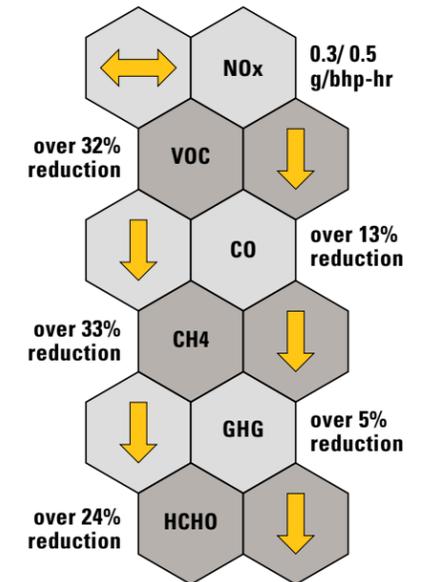
#### A3 GEN 2 UPGRADE COMPARED TO AN A3 GEN 1



Conditions: 85 MN, 905 BTU/scf LHV, 100% speed and load, 77 F ambient, 500 ft altitude.

Gen 1 and Gen 2 components and related engine software should not be mixed in a single engine. The engine must have all Gen 1 or Gen 2 parts installed, or performance, engine emissions, and durability could be impacted. Emissions reductions may vary, it is recommended that operators conduct Gas Engine Rating Pro (GERP) analysis for site-specific conditions to estimate the amount of emissions reductions that are achievable for the particular application.

#### A4 GEN 2 UPGRADE COMPARED TO AN A4 GEN 1



Conditions: 85 MN, 905 BTU/scf, 100% speed and load, 77 F, 500 ft altitude.

Figures based on Caterpillar lab performance testing that can be referenced in Gas Engine Rating Pro (GERP). Emissions reductions may vary, we recommend that operators conduct GERP analysis for site-specific conditions to estimate the amount of emissions reductions that are achievable for the particular application.

OPTION 3 Emissions reduction + 10% uprate + increased altitude capability	OPTION 2 Emissions Reduction + 10% uprate	OPTION 1 Emissions Reduction	<b>Base Kit:</b> Piston Cylinder Liner Sleeve Liner (Cuff) Piston Rings Prechamber Base Engine Software
			Uprate Engine Software
			Turbocharger and Lines

#### KIT OPTIONS FOR A4 ENGINE

##### OPTION 1

###### Emission reduction benefits only

- Base horsepower offering allows users to take advantage of emissions benefit while maintaining standard compressor match, cooling system and package layout

##### OPTION 2

###### Emissions reduction and 10% horsepower increase

- Everything included in option 1 and 10% horsepower uprate software access

##### OPTION 3

###### Emission reduction, 10% more horsepower and increased altitude capability

- Everything included in Options 1 and 2, along with a turbocharger update for improved altitude capability

➤ **FOR G3616 ENGINES, A FUEL SYSTEM UPDATE IS REQUIRED WITH ALL OPTIONS ABOVE.**

➤ **YOU CAN UPGRADE YOUR G3600 A3 GEN 1 ENGINES WITH THE EMISSION REDUCTION BENEFIT TODAY!**

\*Options 2 and 3 are unavailable for G3600 A3 engines.

# REMANUFACTURED PRODUCTS. RECLAIMED PERFORMANCE.

Our wide range of Cat® Reman coverage options are tailored to support your Cat equipment – providing like-new components capable of returning the reliability and dependability of your engine to original Caterpillar performance specifications at a fraction-of-the cost of new when you return your end-of-life core.\*

\*Core conditions apply

## CAT REMAN COMPONENTS

- » 3600 prechambers
- » Alternators & starters
- » Camshafts
- » Connecting rods
- » Cylinder heads
- » Electronics
- » Oil coolers
- » Oil pumps
- » Pre-lube pumps
- » Rocker arms & lifters
- » Turbochargers
- » Water pumps



## WHAT CAT REMAN IS

- ✓ Engineered in a consistent process delivering sustainability benefits, within a manufacturing environment designed to match the OEM performance specifications and manufacture of new products.
- ✓ Upgraded to include critical engineering updates.
- ✓ Made using components from original equipment which have been remanufactured to like-new quality by Caterpillar.
- ✓ Restored using proprietary Caterpillar processes with genuine Cat parts.
- ✓ Covered by a same-as-new, 12-month Caterpillar Limited Warranty.<sup>1</sup>
- ✓ A comprehensive remanufacturing process of used parts obtained through core return that gives each part a new identity.

1. Warranty can vary by model and application; limitations apply. Contact an authorized Cat dealer for complete details about the applicable Caterpillar Limited Warranty.

## WHAT IT IS NOT

- ✗ A repair — which is often a simple or targeted fix for specific concerns, designed to keep equipment running for the near term. However, Cat Reman solutions can be used as part of the repair process.
- ✗ A refurbish/recondition — which generally includes an external physical inspection, an internal visual examination, cleaning of material buildup and then reassembly with basic testing.
- ✗ A rebuild — which may require a longer turnaround time and, when completed by a third party, may use will-fit parts without the benefit of Caterpillar reuse guidelines and salvage specifications. However, Cat Reman solutions can be used as part of the rebuild process.
- ✗ A retrofit — in which new parts are designed to fit into older machine models to address productivity or maintenance issues.

# CAT® CLOSED CRANKCASE VENTILATION SYSTEM (CCV)

The field-proven Cat CCV System captures and filters gases that accumulate in the engine crankcase and routes them into the engine intake system – eliminating blow-by emissions. Returned crankcase gases are combusted before exiting the engine, reducing engine methane emissions by up to 20%. Specifically designed for Cat G3600 engines, the bolt-on CCV system holds multiple unique patents that distinguish it from conventional CCV approaches. The system reflects our commitment to help gas compression operators cost-effectively meet regulatory requirements with new and existing assets.

## CCV

- CRANKCASE GAS
- COOLANT
- OIL

## FEATURES + BENEFITS

Reduces up to 20% of engine methane emissions	8,000-hour filter change service interval
Eliminates venting of crankcase gas	Reduces lube oil consumption
Easy to install as a bolt-on retrofit at any time	Helps eliminate facility contamination
Operational in low ambient temperatures with minimal risk of condensation	Maintains crankcase pressure at 0 kPa

\* Based on OEM data, estimated at the end of ring life, pipeline quality gas (85 MN / 905 BTU/ scf)

**SEE THE CAT  
CCV SYSTEM  
IN ACTION**

