



THE EVOLUTION OF A LEGEND. THE CAT® G3600

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[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

QUICK GUIDE TO
GAS COMPRESSION ENGINES

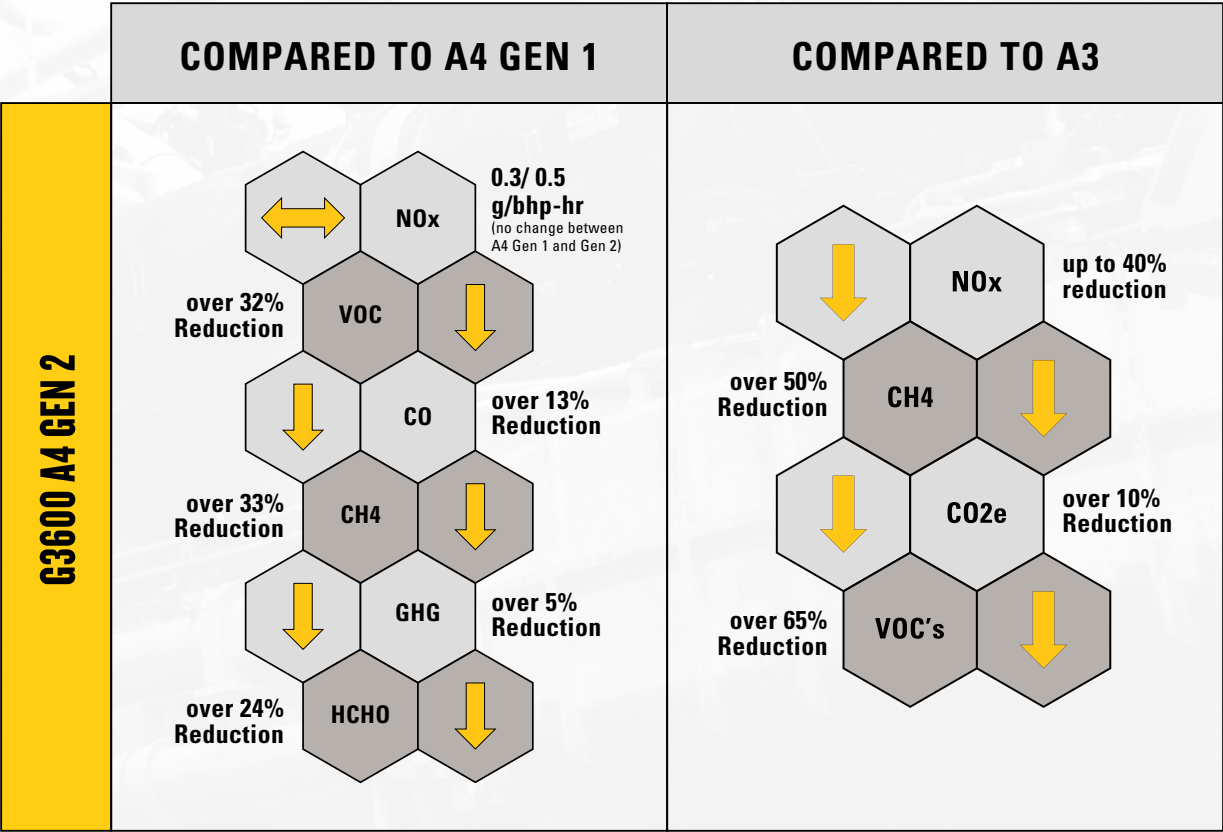


THE NEXT GEN G3600					Year		91	92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25									
					Ignition/ Control System	ESS																																												
																				ADEM™ 3																														
																																						ADEM™ 4												
	Serial Number Prefix	Engine Controls	Engine Arr,	NOx Levels (g/hp-hr)	Range of Ratings (bhp)	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025										
G3606	3XF	ESS	7C4106	0.7	1500-1666																																													
				0.7	1666-1765																																													
				0.7	1666																																													
			1763606	0.7	1666-1765																																													
				0.7	1500-1765																																													
	4ZS	ADEM™ 3	2174525	0.5, 0.7	1775-1900																																													
	JFE	ADEM™ 4	4191870	0.3, 0.5	1875-2010																																													
	XSF	ADEM™ 4 Gen 2	6137338	0.3, 0.5	1900-2065																																													
G3608	4WF	ESS	7C4108	0.7	2222																																													
				0.7	2117-2352																																													
				0.7	1960-2222																																													
				0.7	2144-2400																																													
				0.7	2225-2520																																													
	BEN	ADEM™ 3	1763608	0.7	2012-2370																																													
				2482																																														
			2286944	0.5, 0.7	2370-2520																																													
			XH7	ADEM™ 4	4375913	0.3, 0.5	2500-2675																																											
NSF	ADEM™ 4 Gen 2	6137339	0.3, 0.5	2500-2750																																														
G3612	1YG	ESS	7C4112	0.7	3335																																													
				0.7	3100-3550																																													
				0.5, 0.7	3100-3550																																													
			1973916	0.7	2000-3670																																													
	BKE	ADEM™ 3	1763612	0.5, 0.7	3127-3785																																													
	BB2	ADEM™ 4	4414758	0.3, 0.5	3750-4000																																													
	ZMC	ADEM™ 4 Gen 2	6137340	0.3, 0.5	3750-4125																																													
G3616	4CG	ESS	7C4116	0.7	3200-5147																																													
				0.5, 0.7	4325-5045																																													
	BLB	ADEM™ 3	1763616	0.7	4445-4735																																													
				0.7	4735																																													
			2288987	0.7	4705-5045																																													
	ZZY	ADEM™ 4	3831793	0.3, 0.5	5000-5350																																													
	HTJ	ADEM™ 4 Gen 2	6137342	0.3, 0.5	5000-5500																																													

► Hydrax (electro-hydraulic actuators) used instead of electronic actuators.

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

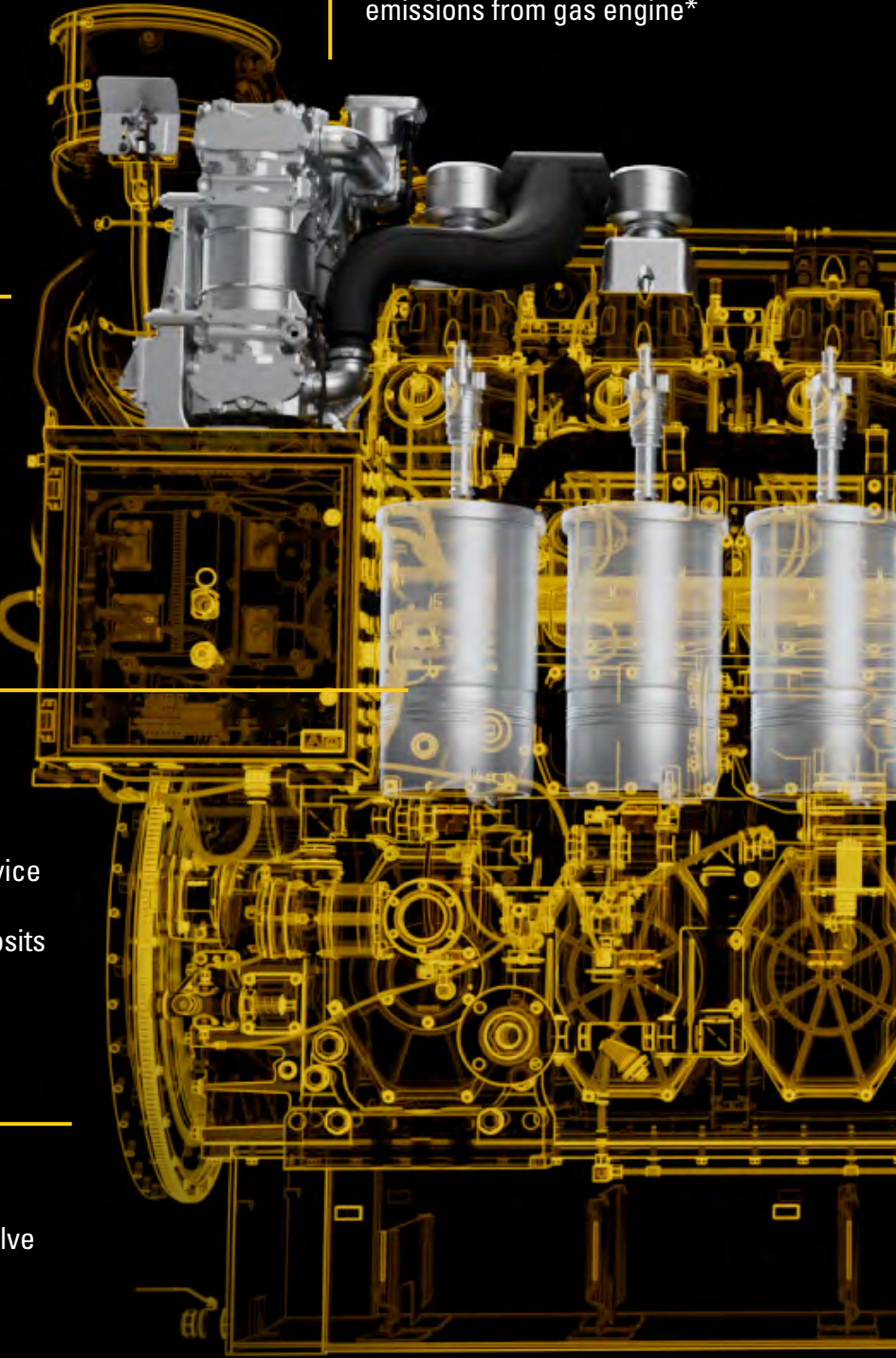
NEXT GEN UPGRADES

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

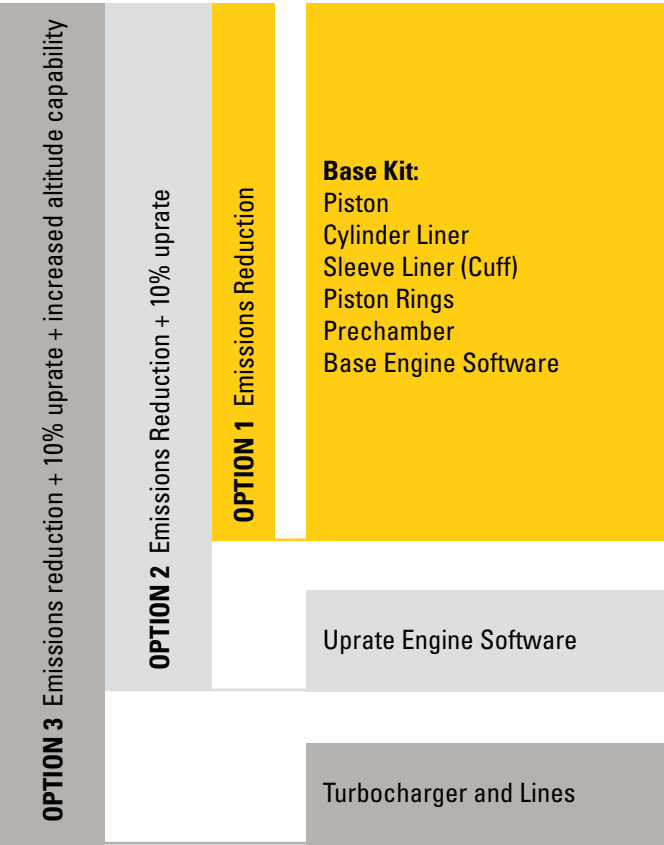
With over 8,500 G3600 engines in the field, **it's clear why they are considered the foundation of gas compression operations.** Now, it's time for the next evolution of your engine with the latest Cat® upgrade options.

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



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

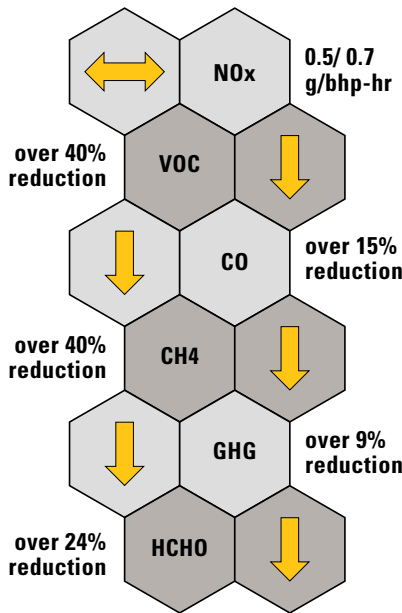
Emission reduction, 10% more horsepower and increased altitude capability

- 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!**

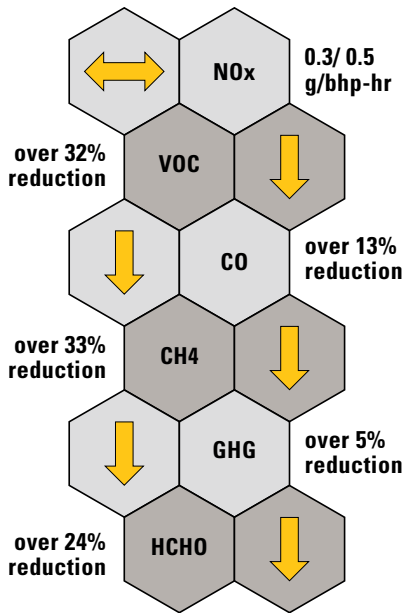
A3 GEN 2 UPGRADE COMPARED TO AN A3 GEN 1



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.

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

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

