

EMISSIONS UPGRADES

WHAT IS MY EPA STATUS FOLLOWING AN UPGRADE?

The United States Environmental Protection Agency (US EPA) allows OEM-provided EPA-compliant service options via certified, verified, or rebuilt configurations.

UPGRADE TYPE	EPA VERIFIED UPGRADE	EPA CERTIFIED UPGRADE	1068 OEM REBUILD
Engine Platform	3500 Propulsion Only	3500 Propulsion Only	All 3600/C280s and Remaining 3500s
Upgrade Path	EPA Upgrades from Tier 1 to 2, Tier 1 to 3, or Tier 2 to 3	Upgrades from Mechanical Unit Injector to EPA Tier 1 or Tier 2	Any Upgrades to a Certified Configuration
Certification Status	Verified by EPA • Recognized by CARB • Recognized by TCEQ	Certified by EPA • Recognized by CARB • Recognized by TCEQ	Allowed by EPA • Recognized by TCEQ
Emission Family	Original As Built Emission Family Retained	Emission Family Updates with Upgrade	Original As Built Emission Family Retained
Emission Label	Supplementary Emission Labels with Rebuilt to Emission Family	New Emission Label	Supplementary Emission Labels with Original Engine Label
Engine Information Label	New Engine Information Label Required	New Engine Information Label Required	New Engine Information Label Required
Upgrade Offering	If a Certified Upgrade is not available, a Verified Upgrade* can be offered	Required to be offered if available*	If a Certified Upgrade is not available, an OEM rebuild can be offered

UPGRADE DEFINITIONS






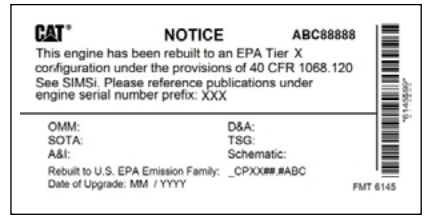
- CERTIFIED UPGRADES** REBUILT IN ACCORDANCE WITH 40 CFR PART 1042 SUBPART I
- VERIFIED UPGRADES** ARE ON THE EPA VERIFIED TECHNOLOGIES LIST
- 1068 OEM REBUILDS** REBUILT IN ACCORDANCE WITH 40 CFR PART 1068.120

*Per the EPA's Marine Remanufacture Program, vessel owners must use an EPA-certified remanufacture system at the time of upgrade, if available.



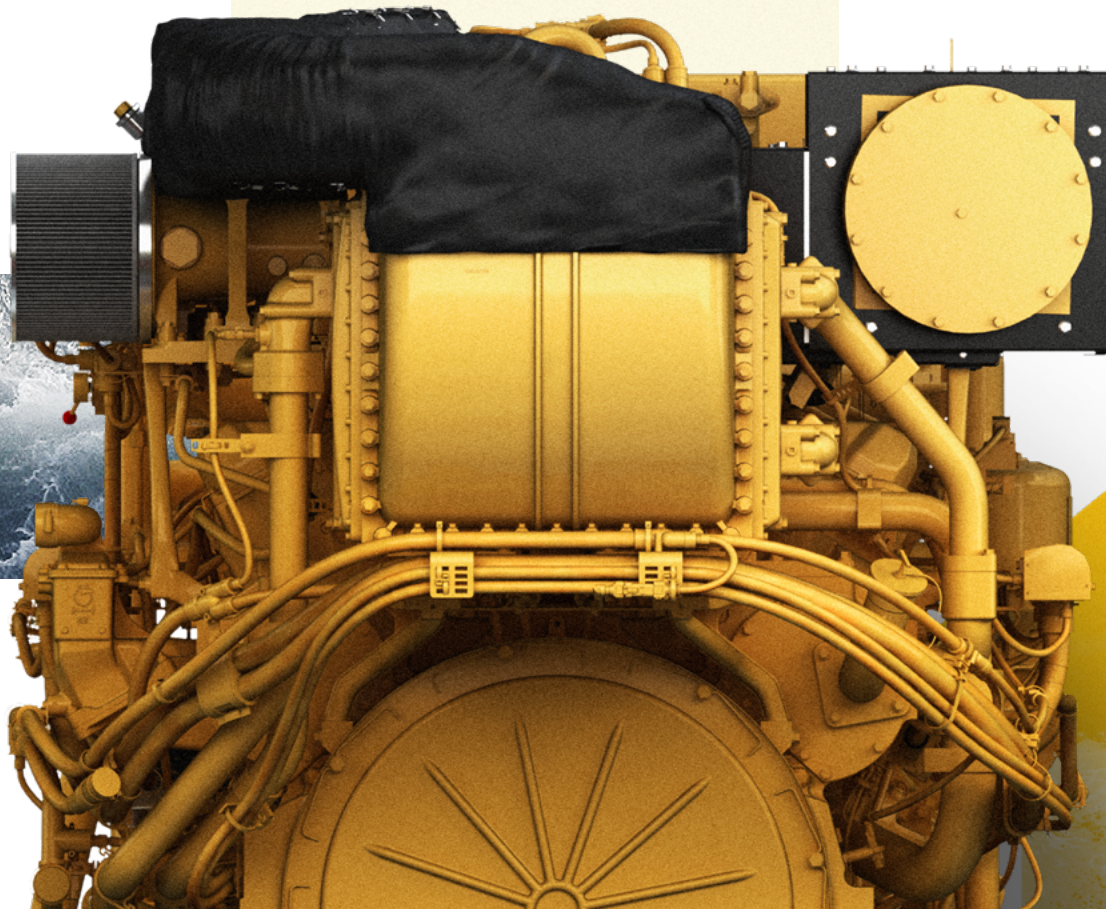


WHAT DOES A CUSTOMER GET WITH AN UPGRADE?

CERTIFIED UPGRADE 1042 Kits (40 CFR Part 1042) 	EPA VERIFIED UPGRADE Verified Technologies for Clean Diesel 	1068 OEM REBUILD In accordance with 40 CFR Part 1068.120 
Only for MUI to EPA Tier 1 or 2 3500 propulsion engines only	Upgrades to EPA Tier 2 or 3 3500 propulsion engines only	Any upgrade to a certified configuration
<p>New Emission Label*</p> 	<p>Supplementary Emission Labels*</p> 	<p>Supplementary Emission Label*</p> 
Engine emission family is changed	Engine emission family does not change from the family assigned by the factory when the engine was originally built	

ALL CAT MARINE UPGRADES CONVERT THE ENGINE TO A LOWER EMISSIONS CONFIGURATION

*Label images are representative examples and may not match actual labels issued



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