

Below are primary elements of California's certification requirements and U.S. EPA requirements for alternative fuel conversions:

	California		U.S. EPA		
	New Vehicles and Engines	Aftermarket On-Road	New	Intermediate	Outside Useful Life
Applicability	All new vehicles/engines on test group/engine family basis	All used vehicles/engines on test group/engine family basis	MY \geq current calendar year -1	MY \leq current calendar year -2 and $<$ useful life	Exceeds useful life
Emission Compliance	Compliance using OEM's DFs or assigned DFs then test the EDV at 4,000 miles or stabilized EDE.	Compliance using assigned or derived DFs then re-test at useful life	Compliance using assigned DFs	Submit data showing compliance with standards; can choose to certify	Technical description to show emissions will not degrade
OBD Compliance	New vehicle/engine OBD requirements	New vehicle/engine OBD requirements	Check for MIL with faults	Attestation of fully functioning OBD system and OBD scan tool report	Attestation of fully functioning OBD system and OBD scan tool report
Carry Over/ Carry Across	Engineering analysis and comparative data	Engineering analysis and comparative data	Combine test groups/engine families	Further flexibility to combine test groups/engine families	Further flexibility to combine test groups/engine families
Labeling, Vehicle Emission Control Information (VECI) and Engine Label	New VECI/engine label specifications. May be affixed adjacent to OEM's VECI/engine label.	Supplemental emission control information label	Supplemental emission control information label	Supplemental emission control information label	Supplemental emission control information label
Manufacturer Warranty	Light-Duty, 3 years or 50K miles & 7 years or 70K miles on high cost parts. Heavy-duty Diesel, 5 years or 100,000 miles or 3,000 hours Heavy-duty Otto, 5 years or 50,000 miles	3 years or 50K miles and 7 years or 70K miles for retrofit system	Remaining OEM warranty	Remaining OEM warranty	N/A
Installer Warranty	N/A	3 years or 50K miles on installation work	N/A	N/A	N/A
Confirmatory Testing	Performed on case-by-case basis at ARB's discretion	Confirmatory testing	Confirmatory testing	Confirmatory testing	Confirmatory testing
In-Use Testing	Testing based on reported warranty claims	In-use compliance testing	In-use compliance testing	In-use compliance testing	In-use compliance testing

Notes:

1) EPA certifies converted vehicles/engines; the process and requirements are the same whether new or used vehicles less than two years old. Two years or older vehicles/engines converted to operate on alternative fuels are not issued certification, but are required compliance submission. Certification is issued to the engine family/test group assigned for the conversion manufacturer.

2) CA certifies new alternative fueled vehicles/engines, and retrofit kits for used vehicles/engines (conversion to alternative fuels occur after the vehicle/engine is purchased by the ultimate purchaser). All retrofit kits must be certified if installed on regulated vehicles/engines. Only 1994 and newer vehicles/engines are certified on an engine family/test group basis and subject to durability requirements. Certification is issued to the OEM engine family/test group, the same as assigned to the certification of the original engine/vehicle.