

# Texas Commission on Environmental Quality

## Texas Natural Gas Vehicle Grant Program

### List of EPA Certificates of Conformity For Natural Gas Vehicles and Engines

#### Purpose

To qualify under the Texas Natural Gas Vehicle Grant Program (TNGVGP), a vehicle or engine must be new and must meet one of the U.S. Environmental Protection Agency (EPA) standards for nitrogen oxides (NO<sub>x</sub>) emissions listed below.

- Heavy-duty engines must be certified to the EPA standard of 0.2 grams per brake horsepower-hour (g/bhp-hr) of NO<sub>x</sub> or better.
- Vehicles classified as Medium-Duty Passenger Vehicles, certified under the EPA's light-duty vehicle emissions standards, must be certified to the EPA Bin 5 or lower standard for light-duty vehicles of 0.07 grams per mile (g/mi) of NO<sub>x</sub> or better.
- Complete heavy-duty natural gas vehicles, as well as chassis-certified incomplete heavy-duty natural gas vehicles, weighing 8,501 – 14,000 pounds (lb) gross vehicle weight rating (GVWR) must be certified to meet or exceed the EPA emissions standards for complete heavy-duty vehicles (0.2 g/mi of NO<sub>x</sub> for vehicles 8,501 – 10,000 lb GVWR; 0.4 g/mi of NO<sub>x</sub> for vehicles 10,001 – 14,000 lb GVWR).

This document lists engine family names for heavy-duty on-road vehicle engines and vehicle test group names for medium-duty passenger vehicles and chassis-certified heavy-duty vehicles for which the TCEQ has received a copy of the EPA Certificate of Conformity indicating that the engine or vehicle is certified to the required EPA NO<sub>x</sub> emissions standard.

Inclusion on these lists **DOES NOT** mean that a project involving one of the vehicles or engines included on the list is eligible for a grant. Certification to the required EPA emissions standard is only one of a number of criteria that must be met in order for a project to be eligible.

#### How to Update the List

If a manufacturer or Participating Dealer has determined that a vehicle or engine not included on this list is certified to the required standard, the manufacturer or dealer should contact the TCEQ and provide a copy of the relevant EPA Certificate of Conformity. If the TCEQ confirms that the vehicle or engine is certified to the required NO<sub>x</sub> emissions standard, the TCEQ will update the table with the applicable test group or engine family.

Although it is preferable that the certificate be received by TCEQ before an application for that vehicle or engine is submitted, the Participating Dealer may include a copy of the certificate with an application. The TCEQ may withhold processing the application until the documentation of the certified NO<sub>x</sub> emissions has been reviewed and accepted.

## **Statement Regarding After-Market Vehicle Conversions**

As further outlined in the grant Request for Grant Applications (RFGA), a natural gas vehicle purchased under the Replacement Project category must be new. Under this requirement, if a newly-manufactured vehicle must be converted from conventional fuel to natural gas, that conversion must occur as part of the purchase of the vehicle.

After-market conversions to natural gas of a vehicle already owned, leased, or otherwise commercially financed by the applicant may be considered under the Repower Project category. However, under this category, the EPA Certificate of Conformity for the conversion to natural gas must show that the converted vehicle is certified to a NO<sub>x</sub> emissions standard or family emissions limit (FEL) that is at least 25% lower than the original vehicle. In addition, a vehicle being repowered must have been owned or leased for at least two years prior to submission of the application.

Based on these requirements, there may be few, if any, after-market conversion systems for medium-duty passenger vehicles that will qualify for funding under the Repower Project category. Participating Dealers should contact the TCEQ with any questions regarding the eligibility of systems to convert an existing vehicle to run on natural gas.

### **List A**

#### **Heavy-Duty Natural Gas On-Road Vehicle Engines Certificates of Conformity (0.2 g/bhp-hr of NO<sub>x</sub> or better)**

The following heavy-duty natural gas on-road vehicle engine families have been issued an EPA Certificate of Conformity indicating they are certified to the required emissions standard of 0.2 g/bhp-hr of NO<sub>x</sub> or better.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

Also, the TCEQ understands that, in some cases, by the time a purchase is completed the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the grant program Request for Grant Applications (RFGA) and contract documents for criteria and directions regarding this situation.

This list does not distinguish between engine families that may be available on new vehicles and an engine family that may be available for repower/conversion of an existing heavy-duty vehicle. Applicants and the Participating Dealer must ensure that a particular engine family is applicable to the type of activity being applied for.

<b>Engine Model</b>	<b>Manufacturer</b>	<b>Engine Family Name/Code</b>	<b>Displacement</b>
V-10	BAF Technologies	EBAFE06.83NN	6.8 Liters (L)
V-10	BAF Technologies	EBAFE06.89NN	6.8 L
V-10	BAF Technologies	DBAFE06.83NN	6.8 L
V-10	BAF Technologies	DBAFE06.89NN	6.8 L
V-10	BAF Technologies	CBAFE06.83NN	6.8 L
V-10	BAF Technologies	CBAFE06.89NN	6.8 L
GM 6.0L	Baytech Corporation	CBYTE06.0C10	6.0 L
GM 6.0L	Baytech Corporation	BBYTE06.0113	6.0 L
GM 6.0L	Baytech Corporation	BBYTE06.0613	6.0 L
GM 8.1L	Baytech Corporation	BBYTE08.1C12	8.1 L
GM 8.1L	Baytech Corporation	BBYTE08.1C13	8.1 L
ISX12 G	Cummins Inc.	ECEXH0729XBA	11.9 L
ISL G	Cummins Inc.	ECEXH0540LBF	8.9 L
ISL G	Cummins Inc.	ECEXH0540LBG	8.9 L
ISL G	Cummins Inc.	ECEXH0540LBH	8.9 L
ISX12 G	Cummins Inc.	DCEXH0729XBA	11.9 L
ISL G	Cummins Inc.	DCEXH0540LBF	8.9 L
ISL G	Cummins Inc.	DCEXH0540LBG	8.9 L
ISL G	Cummins Inc.	DCEXH0540LBH	8.9 L
ISL G	Cummins Inc.	CCEXH0540LBF	8.9 L
ISL G	Cummins Inc.	CCEXH0540LBG	8.9 L
ISL G	Cummins Inc.	CCEXH0540LBH	8.9 L
GL11K	Doosan	CDICH11.1EFA	11.1 L
GL11K	Doosan	CDICH11.1EEA	11.1 L
2-Valve	EvoTek, LLC	BETKE06.86NA	6.8 L
3-Valve	EvoTek, LLC	BETKE06.86NB	6.8 L
V-8	Greenkraft Inc	DGKTE06.0GM2	6.0 L
V-8	Greenkraft Inc	CGKTE06.0GM1	6.0 L
V-8	Greenkraft Inc	CGKTE06.0GM2	6.0 L
GM 6.0L	Landi Renzo USA	ELDRE06.0C10	6.0 L
Ford 6.8L	Landi Renzo USA	ELDRE06.8C10	6.8 L
Ford 6.8L	Landi Renzo USA	ELDRE06.8B10	6.8 L
GM 6.0L	Landi Renzo USA	DLDRE06.0C10	6.0 L
Ford 6.8L	Landi Renzo USA	DLDRE06.8C10	6.8 L
Ford 6.8L	Landi Renzo USA	CLDRE06.8C10	6.8 L
GX 475	Westport Fuel Systems, Inc	DWFSH0912XAL	15.0 L
GX 475	Westport Fuel Systems, Inc	CWFSH0912XAL	15.0 L

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**List B**  
**Medium-Duty Passenger Vehicles**  
**Certificates of Conformity**  
**(Bin 5: 0.07 g/mi of NO<sub>x</sub> or better)**

The following natural gas medium-duty passenger vehicle test groups have been issued a certificate of conformity meeting the required emissions standards of 0.07 g/mi of NO<sub>x</sub> or better.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

Also, the TCEQ understands that, in some cases, by the time a purchase is completed the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the grant program RFGA and contract documents for criteria and directions regarding this situation.

This list does not distinguish between test groups that may be available on new vehicles and a test group that may be available for repower/conversion of an existing vehicle. Applicants and the Participating Dealer must ensure that a particular test group is applicable to the type of activity being applied for.

Vehicle Model(s)	Manufacturer	Test Group Name/Code	Displacement
Ford F150	Altech-Eco Corporation	CAECT05.03DA	5.0 Liters (L)
<ul style="list-style-type: none"> <li>• G2500 EXPRESS 2WD CARGO</li> <li>• G2500 EXPRESS 2WD PASS</li> <li>• G2500 EXPRESS CONV 2WD CARGO</li> <li>• G2500 SAVANA 2WD CARGO</li> <li>• G2500 SAVANA 2WD PASS</li> <li>• G2500 SAVANA CONV 2WD CARGO</li> <li>• G3500 EXPRESS 2WD CARGO</li> <li>• G3500 EXPRESS 2WD PASS</li> <li>• G3500 EXPRESS CONV 2WD CARGO</li> <li>• G3500 SAVANA 2WD CARGO</li> <li>• G3500 SAVANA 2WD PASS</li> <li>• G3500 SAVANA CONV 2WD CARGO</li> </ul>	Baytech Corporation	BBYTT06.0918	6.0 L
Ford Econoline 250/350	EvoTek LLC	BETKT05.4N1A	5.4 L
Ford F250/F350	EvoTek LLC	BETKT06.2N2A	6.2 L
<ul style="list-style-type: none"> <li>• G2500 Express 2WD Pass</li> <li>• G2500 SAVANA 2WD CARGO MDPV</li> <li>• G2500 Savana 2WD Pass</li> <li>• G2500 EXPRESS 2WD CARGO MDPV</li> </ul>	NaturalDrive Partners, LLC	BNTDT06.0VAB	6.0 L

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<ul style="list-style-type: none"> <li>• G2500</li> <li>• EXPRESS 2WD PASS MDPV</li> <li>• G2500 Express 2WD Cargo</li> <li>• G2500 Express Conv 2WD Cargo</li> <li>• G2500 SAVANA 2WD PASS MDPV</li> <li>• G2500 Savana 2WD Cargo</li> <li>• G2500 Savana Conv 2WD Cargo</li> <li>• G3500 EXPRESS 2WD CARGO MDPV</li> <li>• G3500 EXPRESS 2WD PASS MDPV</li> <li>• G3500 Express 2WD Cargo</li> <li>• G3500 Express 2WD Pass</li> <li>• G3500 Express Conv 2WD Cargo</li> <li>• G3500 SAVANA 2WD CARGO MDPV</li> <li>• G3500 SAVANA 2WD PASS MDPV</li> <li>• G3500 Savana 2WD Cargo</li> <li>• G3500 Savana 2WD Pass</li> <li>• G3500 Savana Conv 2WD Cargo</li> </ul>			
<ul style="list-style-type: none"> <li>• G1500 Savana 2WD Cargo</li> <li>• C15 Sierra 2WD</li> <li>• C15 Sierra XFE 2WD</li> <li>• C15 Silverado 2WD</li> <li>• C15 Silverado XFE 2WD</li> <li>• C1500 Avalanche 2WD</li> <li>• C1500</li> </ul>	NaturalDrive Partners, LLC	BNTDT05.3FEB	5.3 L, 4.8 L

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<ul style="list-style-type: none"> <li>• Suburban 2WD</li> <li>• C1500 Tahoe 2WD</li> <li>• C1500 Yukon 2WD</li> <li>• C1500 Yukon XL 2WD</li> <li>• G1500 Express 2WD Pass</li> <li>• G1500 Savana 2WD Cargo Conv</li> <li>• G1500 Savana 2WD Pass</li> <li>• G1500 Van 2WD Cargo</li> <li>• G1500 Van Conv 2WD Cargo</li> <li>• H1500 Express AWD Pass</li> <li>• H1500 Savana AWD Cargo Conv</li> <li>• H1500 Savana Cargo AWD</li> <li>• H1500 Savana Pass Van AWD</li> <li>• H1500 Van AWD Cargo</li> <li>• H1500 Van Conv AWD Cargo</li> <li>• K15 Sierra 4WD</li> <li>• K15 Silverado 4WD</li> <li>• K1500 Avalanche 4WD</li> <li>• K1500 Suburban 4WD</li> <li>• K1500 Tahoe 4WD</li> <li>• K1500 Yukon 4WD</li> <li>• K1500 Yukon XL 4WD</li> </ul>			
<ul style="list-style-type: none"> <li>• Ram 1500 2WD</li> <li>• Ram 1500 4WD</li> </ul>	Nat Gas Car LLC	CNATT04.7UPB	4.7 L

**List C**  
**Chassis-Certified Heavy-Duty Vehicles**  
**Certificates of Conformity**  
**(0.2 g/mi of NO<sub>x</sub> for vehicles 8,501 – 10,000 lb GVWR; 0.4 g/mi of NO<sub>x</sub> for vehicles 10,001 – 14,000 lb GVWR)**

The following heavy-duty natural gas vehicle test groups have been issued a certificate of conformity meeting the required emissions standards of 0.2 g/mi of NO<sub>x</sub> or better for vehicles 8,501 – 10,000 GVWR or 0.4 g/mi of NO<sub>x</sub> or better for vehicles 10,001 – 14,100 GVWR.

A natural gas vehicle or engine purchased under the TNGVGP must be new. Therefore, only recent certificates are listed. See the section entitled *How to Update the List* for information on submitting certificates for engines not on the list.

Also, the TCEQ understands that, in some cases, by the time a purchase is completed the vehicle and/or engine purchased may be a newer model than was originally listed in the application. Refer to the grant program RFGA and contract documents for criteria and directions regarding this situation.

This list does not distinguish between test groups that may be available on new vehicles and a test group that may be available for repower/conversion of an existing vehicle. Applicants and the Participating Dealer must ensure that a particular test group is applicable to the type of activity being applied for.

Vehicle Model(s)	Manufacturer	Test Group Name/Code	Displacement