

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER B-67-2

Relating to Conversion of Engines to Alternative Fuels

North American Repower

Pursuant to the authority vested in the Air Resources Board by Sections 43004 and 43006 of the Health and Safety Code and Section 10753(d) of the Revenue and Taxation Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: The dedicated compressed natural gas (CNG) retrofit system, manufactured by North American Repower (NAR) of 2625 Temple Heights Drive, Oceanside, California 92056, is certified as described below for the following 2004 model-year International Truck and Engine Corporation 7.6L Medium Heavy-Duty Diesel Engine.

Fuel Type: Diesel to CNG

Engine Family: 4NVXH0466ANB Displacement: 7.6 liter

Engine Models: C230, CH230, C250, CH250

Major Retrofit System Components: See the Attachment

All emission control systems and the engine manufacturer's tune-up label shall be retained. The engine shall be adjusted to NAR's tune-up specifications. The production retrofit system shall be in all material respect the same as that for which certification is granted.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

| FTP Emission Standard or Family Emission Limit (FEL) | <u>NMHC</u> | <u>NMHC+NOx</u> | <u>CO</u> | <u>PM</u> |
|--|-------------|-----------------|-----------|-----------|
| MHDD@ 10 years / 185,000 Miles | 0.5 | 4.1 (FEL) | 15.5 | 0.10 |

The certification exhaust emission values for this engine family with the dedicated CNG retrofit system in grams per brake horsepower-hour are:

| | <u>NMHC</u> | <u>NMHC+NOx</u> | <u>CO</u> | <u>PM</u> |
|---|-------------|-----------------|-----------|-----------|
| Certification Levels @ 10 year or 185,000 Miles | 0.4 | 2.4 | 3.4 | 0.01 |

BE IT FURTHER RESOLVED: The retrofit system manufacturer has submitted and the Executive Officer hereby approves the materials in the application to demonstrate certification compliance with the emission standards set forth in Section 4 of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for 2004 and Subsequent Model Year On-Road Motor Vehicles and Engines."

BE IT FURTHER RESOLVED: The retrofit system manufacturer shall provide a supplemental emission control information label, which shall be affixed in a permanent manner adjacent to the original Vehicle Emission Control Information label, and shall comply with the labeling requirements described in Section 3(e) of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for 2004 and Subsequent Model Year On-Road Motor Vehicles and Engines."

BE IT FURTHER RESOLVED: The retrofit system manufacturer has submitted and the Executive Officer hereby approves the materials required to demonstrate certification compliance with the warranty requirements, including warranty notification under Sections 3(f)(5) , 3(g), and 9 of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for 2004 and Subsequent Model Year On-Road Motor Vehicles and Engines."

BE IT FURTHER RESOLVED: The retrofit system manufacturer may be subject to in-use enforcement emission testing as described in Section 12 of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for 2004 and Subsequent Model Year On-Road Motor Vehicles and Engines."

BE IT FURTHER RESOLVED: The retrofit system manufacturer shall maintain a record of each engine on which the retrofit system is installed as required in Section 3(h) of the "California Certification and Installation Procedures for Alternative Fuel Retrofit Systems for 2004 and Subsequent Model Year On-Road Motor Vehicles and Engines." The manufacturer shall supply a copy of installation information upon request and annually report the annual sales by March 1 of the following calendar year.


The retrofit system certified under this Executive Order must conform to all applicable California emission regulations. Certification of the retrofit system shall not be construed as a certification to sell, offer for sale, or advertise any component of the retrofit system as an individually certified part.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 23rd day of February 2016.



Annette Hebert, Chief



Emissions Compliance, Automotive Regulations and Science Division