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## State of California

AIR RESOURCES BOARD
EXECUTIVE ORDER A-21-212
Relating to Certification of New Heavy-Duty Motor Vehicle Engines CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1998 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

| Engine Family | Liters (Cubic Inches) | Exhaust Emission Control <br> Systems and Special Features |  |
| :---: | :---: | :---: | :---: |
| WCEXH0661MAA <br> $(353 J)$ | 10.8 | 661 | Charge Air Cooler <br> Turbocharger |
| Powertrain Control Module |  |  |  |

Engine models and codes are listed on attachments.
The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

| Non-Methane <br> Hydrocarbons | Carbon <br> Monoxide | Nitrogen <br> oxides | Particulates |
| :---: | :---: | :---: | :---: |
| 1.3 | 15.5 | 4.0 | 0.10 |

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

| Non-Methane <br> Hydrocarbons | Carbon <br> Monoxide | Nitrogen <br> oxides | Particulates |
| :---: | :---: | :---: | :---: |
| 0.2 | 0.6 | 3.7 | 0.07 |

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

1. Any engine which employs a defeat device shall not be covered by this Executive Order.
2. Within 90 days following the issuance of this Executive Order, the manufacturer must show cause, to the satisfaction of the Executive Officer or his designee, that the strategy for fuel injection timing, including timing during the fuel economy mode, is not a defeat device.

Engines certified under this Executive order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.
Executed at El Monte, California this $30^{\text {th }}$ of April 1998.
R. B. Summerfield, Chief Mobile Source Operations Division
LARGE ENGINE MODEL SUMMARY


Process Code: New Submission

