EXECUTIVE ORDER A-13-143-1
Relating to Certification of New Heavy-Duty Motor Vehicle Engines
CATERPILLAR, INC.
Pursuant to the authority vested in the Air Resources Board at Sections 43100, 43101, and 43102 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and Caterpillar, Inc. and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engine and emission control system produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Model Year: 2001
Fuel Type: Diesel

| Engine Family | Displacement <br> Liters |  | Exhaust Emission Control <br> Cubic Inches |  |
| :--- | :---: | :--- | :--- | :--- |
| Systems and Special Features |  |  |  |  |

Engine models and codes are listed on attachments.
BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards or family emission limits (FELs), as applicable, (Title 13, California Code of Regulations, Section 1956.8) and certification exhaust emission values for this engine family in grams per brake horsepower-hour under the Federal Test Procedure ("FTP"):

|  | Total Hydrocarbons | Carbon Monoxide | Nitrogen Oxides | Particulate Matter |
| :---: | :---: | :---: | :---: | :---: |
| Standards | 1.3 | 15.5 | 4.0 | 0.10 |
| Family Emission Limit | n/a | n/a | 3.5 | n/a |
| Certification | 0.3 | 1.2 | 3.1 | 0.09 |

BE IT FURTHER RESOLVED: That the above-described certification is subject to the following terms, limitations and conditions:
The above family emission limits) (FELs) is an emission level declared by the manufacturer to serve for the averaging, banking and trading program and in lieu of an emission standard for certification. It represents the emission standard applicable to this engine family that must be applied when determining compliance of any model within this engine family or compliance with the corporate average standards).

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to the emission standards, including a "Not-to-Exceed" nitrogen oxides emission standard of 4.4 grams per brake horsepower-hour, under the EURO III tests in the Settlement Agreement. The following are the certification exhaust emission standards and certification exhaust emission values for this engine family in grams per brake horsepower-hour under the EURO III tests:

| Total | Carbon <br> Hydrocarbons | Nitrogen <br> Monoxide | Oxides |
| :---: | :---: | :---: | :---: | | Particulate |
| :---: |
| Matter |


| Standard | 1.3 | 15.5 | 3.5 | 0.10 |
| :--- | :--- | ---: | :--- | :--- |
| Certification | 0.1 | 0.3 | 3.1 | 0.06 |

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, Sections 2035 et seq.).

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

1. The Settlement Agreement is in effect.
2. The manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.
Executive Order A-13-143 dated February 9, 2001 is hereby superseded by Executive Order A-13-143-1.

The Bureau of Automotive Repair will be notified by copy of this order and attachments. Executed at El Monte, California this $\qquad$从

R. B. Summerfield, Chief Mobile Source Operations Division


