### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-21-308 Relating to Certification of New Heavy-Duty Engines and Vehicles

## CUMMINS ENGINE COMPANY, 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 Cummins Engine Company, Inc. and any modifications to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following engines and emission control systems 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: Compressed Natural Gas (CNG) or Liquefied Natural Gas (LNG)

Displacement

Engine Family
1CEXH0359BBK

5.9

Displacement

Cubic Inches
5ystems and Special Features
Turbocharger
Charge Air Cooler
Powertrain Control Module
Throttle Body Gaseous Fuel Injection
Heated Oxygen Sensor
Oxidation Catalytic Converter

Engine models and codes are listed on the attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards (Title 13, California Code of Regulations, Section 1956.8) and certification emission levels for this engine family in grams per brake horsepower-hour (g/bhp-hr) under the Federal Test Procedure ("FTP"):

	Non-Methane Hydrocarbons	Carbon Monoxide	Nitrogen <u>Oxides</u>	Particulate <u>Matter</u>
Standards	1.2	15.5	2.5	0.10
Certification	0.1	2.7	1.8	0.02

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional lower-emission NOx standard pursuant to Title 13, California Code of Regulations, Section 1956.8(a)(1).

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.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this

\_ day of February 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

# ATTACHMENT

# Engine Model Semmary Form

**Cummins Engine Company** Manufacturer:

On-highway HDDE Engine category:

EPA Engine Family. 1CEXH0359BBK

Mfr Family Name: 493E

**New Submission** Process Code:

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	na Tc, CAC, H2CS, PCM, OC, TB	HZCS,FCIM, OC	
/sql)	na	2	
7.Fuel Rate: mm/stroke@peak torque	na	na	na
6.Torque @ RPM (SEA Gross)	500@1600	420@1600	375@1600
(ate: 5.Fuel Rate:	na	na	0.8
4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	na	na	na
3.BHP@RPM (SAE Gross)	230@2800	195@2800	B5.9-150G 150@2500
1 Engine Code 2 Engine Model	B5.9-230G	B5.9-195G	B5.9-150G
1.Engine Code	2975;FR90295	2973;FR90007	2970;FR90201