## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-303-1 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: Diesel

Displacement Exhaust Emission Control

Engine Family Liters Cubic Inches

1CEXH0505CAP 8.3 505 Turbocharger

Charge Air Cooler

Powertrain Control Module

Direct Diesel Injection

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"):

	Total <u>Hydrocarbo</u> ns	Carbon <u>Monoxi</u> de	Nitrogen Oxides	Particulate Matter
Standards	1.3	15.5	4.0	0.10
Certification	0.2	1.0	4.0	0.09

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to emission standards under the EURO III tests in the Settlement Agreement, including a "Not-to-Exceed" nitrogen oxides emission standard of 5.0 g/bhp-hr. The following are the emission standards and certification levels, in g/bhp-hr, under the EURO III tests:

	Total <u>Hydroc</u> arbons	Carbon <u>M</u> onoxide	Nitrogen Oxides	Particulate Matter
Standards	1.3	15.5	<u>0xides</u> 4.0	0.10
Certification	0.1	0.4	3.9	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.

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

Executive Order A-21-303, dated December 22, 2000, is hereby superseded by Executive Order A-21-303-1.

Executed at El Monte, California this

\_ day of March 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

## Engine Model

Manufacturer: Cummins Engine Company, Inc.

Engine category: On-highway HDDE EPA Engine Famiv. 1CEXH0505CAP

Mfr Family Name: 413P

Process Code: New Submission

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	56.4 7PDI PCM, TC, CAC 56.4 ·   PCM, TC, CAC 55.3 ·   PCM, TC, CAC
8.Fuel Rate: (lbs/hr)@peak tord	56.4 56.4 55.3
7.Fuel Rate: mm/stroke@peak torque	129 129 126
6.Torque @ RPM (SEA Gross)	660@1300 660@1300 620@1300
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	96.9 93.6 87.5
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP (for diesel only) (for diesels only)	131 126 118
3.BHP@RPM (SAE Gross)	260@2200 240@2200 225@2200
1.Engine Code 2.Engine Model	ISC 260 ISC 240 ISC 225
1.Engine Code	2690,FR90668 2689,FR90667 2688,FR90686